

## Multi-Split Systems

Models: MMSD-A/AR  
MMST-A/AR  
MMSH-A  
M4MSD-A/AR  
M4MST-A/AR



MSD



MST



Большая библиотека технической документации  
<http://splitoff.ru/tehn-doc.html>  
каталоги, инструкции, сервисные мануалы, схемы.

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This manual supersede MMS-2007

**Note** : Installation and maintenance are to be performed only by qualified personnel who are familiar with local codes and regulations, and experienced with this type of equipment.

**Caution** : Sharp edges and coil surfaces are a potential injury hazard. Avoid contact with them.

**Warning** : Moving machinery and electrical power hazard. May cause severe personal injury or death. Disconnect and lock off power before servicing equipment.

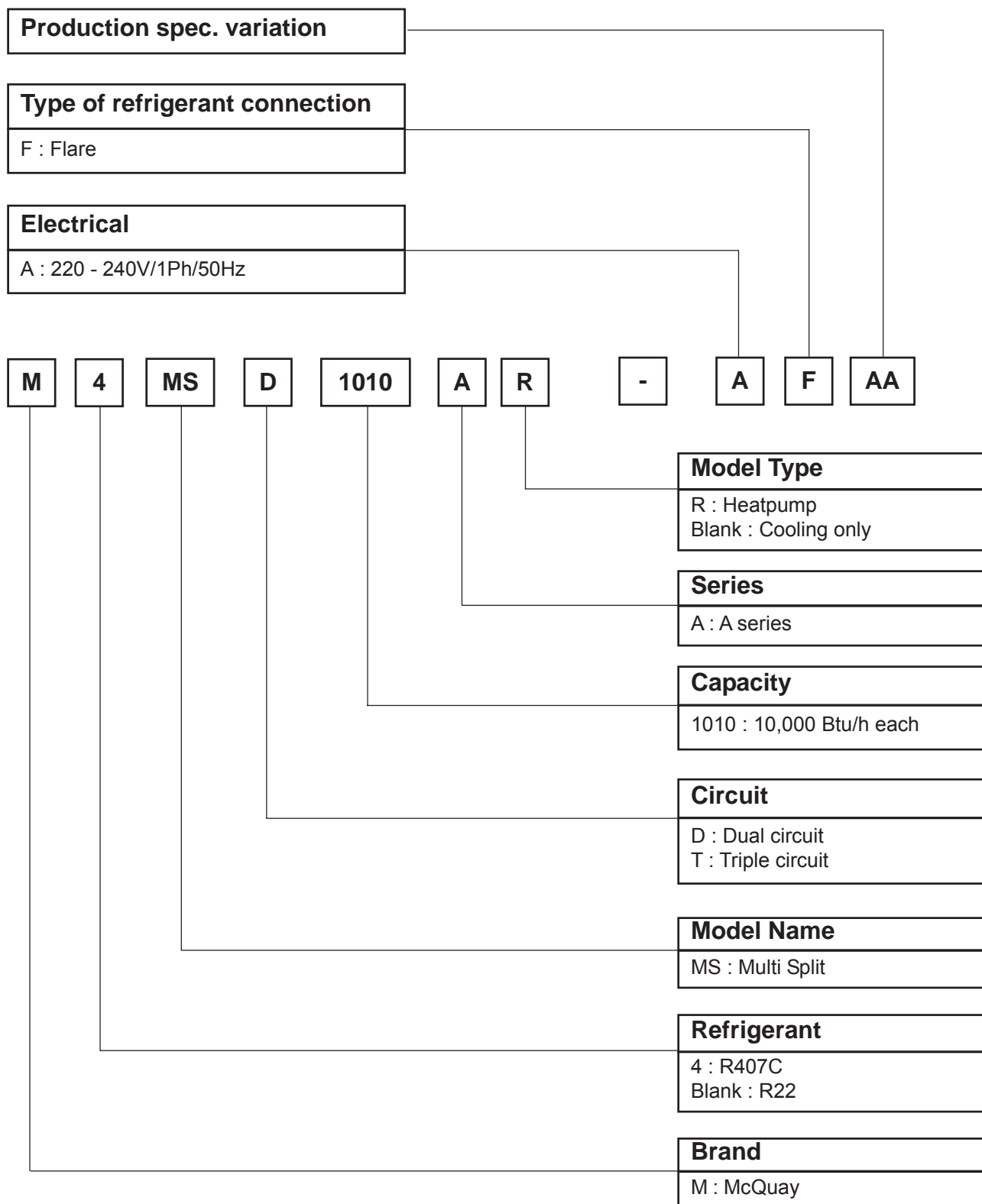
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# Nomenclature



## Product Line Up

### M(4)MS-A Cooling Only

Model	Cooling Only	Nomenclature	Classification									
			Relay	Contact	MS 8	Capillary Tube	Normal Fin	Gold (NA549) Fin	Rotary Compressor	Thermostat	Valve cover	Handling handle
M4MSD	1010A	AFAL	X			X	X		X			
	1015A	AFAL	X			X	X		X			
	1515A	AFAL	X			X	X		X			
MMSD	1010A	AFAL	X			X	X		X		X	X
	1010A	AFAQ	X			X		X	X		X	X
	1015A	AFAL	X			X	X		X		X	X
	1015A	AFAQ	X			X		X	X		X	X
	1020A	AFAC		X		X	X		X		X	
	1020A	AFAQ		X		X		X	X		X	
	1515A	AFAL	X			X	X		X		X	X
	1515A	AFAQ	X			X		X	X			
	1520A	AFAC		X		X	X		X		X	
	1520A	AFAQ		X		X		X	X		X	
	2020A	AFAE		X		X	X		X	X		
	2020A	AFAN		X		X		X	X	X		
M4MST	101010A	AFAE	X			X	X		X	X		
	101015A	AFAE	X			X	X		X	X		
	101515A	AFAE	X			X	X		X	X		
	151515A	AFAE	X			X	X		X	X		
MMST	101010A	AFAE	X			X	X		X	X		
		AFAN	X			X		X	X	X		
	101015A	AFAE	X			X	X		X	X		
		AFAN	X			X		X	X	X		
	101020A	AFAE	X	X		X	X		X	X		
		AFAN	X	X		X		X	X	X		
	101025A	AFAA		X		X		X	X			
	101515A	AFAE	X			X	X		X	X		
		AFAN	X			X		X	X	X		
	101520	AFAE		X		X	X		X			
	101525A	AFAA		X		X		X	X			
	151515A	AFAE	X			X	X		X	X		
		AFAN	X			X		X	X	X		
MMSH	151520A	AFAE	X			X	X		X			
	151525A	AFAA		X		X		X	X			
	66K555A	AFAL			X	X	X		X			
	66K66A	AFAL			X	X	X		X			
	8K66A	AFAL			X	X	X		X			
	8K8A	AFAL	X			X	X		X			
	K77A	AFAL			X	X	X		X			



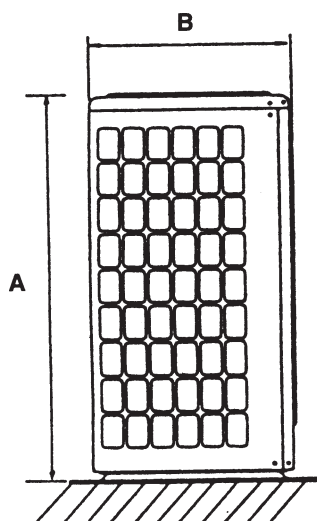
## M(4)MS-AR Heatpump

Model	Heatpump	Nomenclature	Classification											
			MS 5	Capillary Tube	Add Accumulator	Normal Fin	Blue (NA510) Fin	Gold (NA549) Fin	Rotary Compressor	Inclusive drain elbow	Valve cover	Handling handle	Multisplit resistor	Multiple hole drain pan
M4MSD	1010AR	AFAL	X	X		X			X					
	1015AR	AFAL	X	X		X			X					
	1515AR	AFAL	X	X		X			X					
MMSD	1010AR	AFAL	X	X		X			X		X	X	X	
	1010AR	AFAQ	X	X				X	X		X	X	X	
	1015AR	AFAL	X	X		X			X		X	X	X	
	1015AR	AFAQ	X	X				X	X		X	X	X	
	1515AR	AFAL	X	X		X			X		X	X	X	
	1515AR	AFAQ	X	X				X	X		X	X	X	
	1520AR	AFAD	X	X		X			X					X
	1520AR	AFAP	X	X				X	X					X
M4MST	101010AR	AFAD	X	X			X		X					X
	101015AR	AFAD	X	X			X		X					X
	101515AR	AFAD	X	X			X		X					X
	151515AR	AFAD	X	X			X		X					X
MMST	101010AR	AFAD	X	X		X			X	X				
	101010AR	AFAQ	X	X				X	X	X				
	101015AR	AFAD	X	X		X			X	X				
	101015AR	AFAQ	X	X				X	X	X				
	101515AR	AFAD	X	X		X			X	X				
	101515AR	AFAQ	X	X	X			X	X	X				
	151515AR	AFAD	X	X		X			X	X				
	151515AR	AFAQ	X	X	X			X	X	X				

# Features

## Triple S (Slim - Short - Stable)

Slim and short outdoor unit can be easily installed even in a narrow balcony and passageway, and yet have a stable profile.

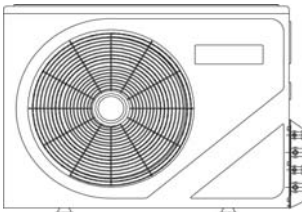


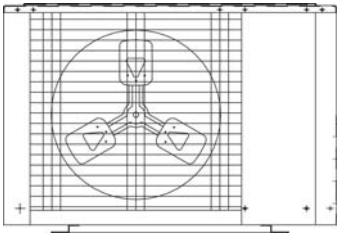


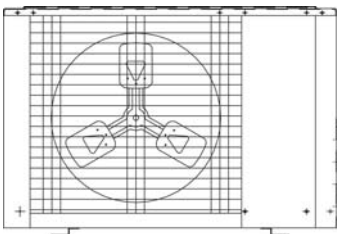




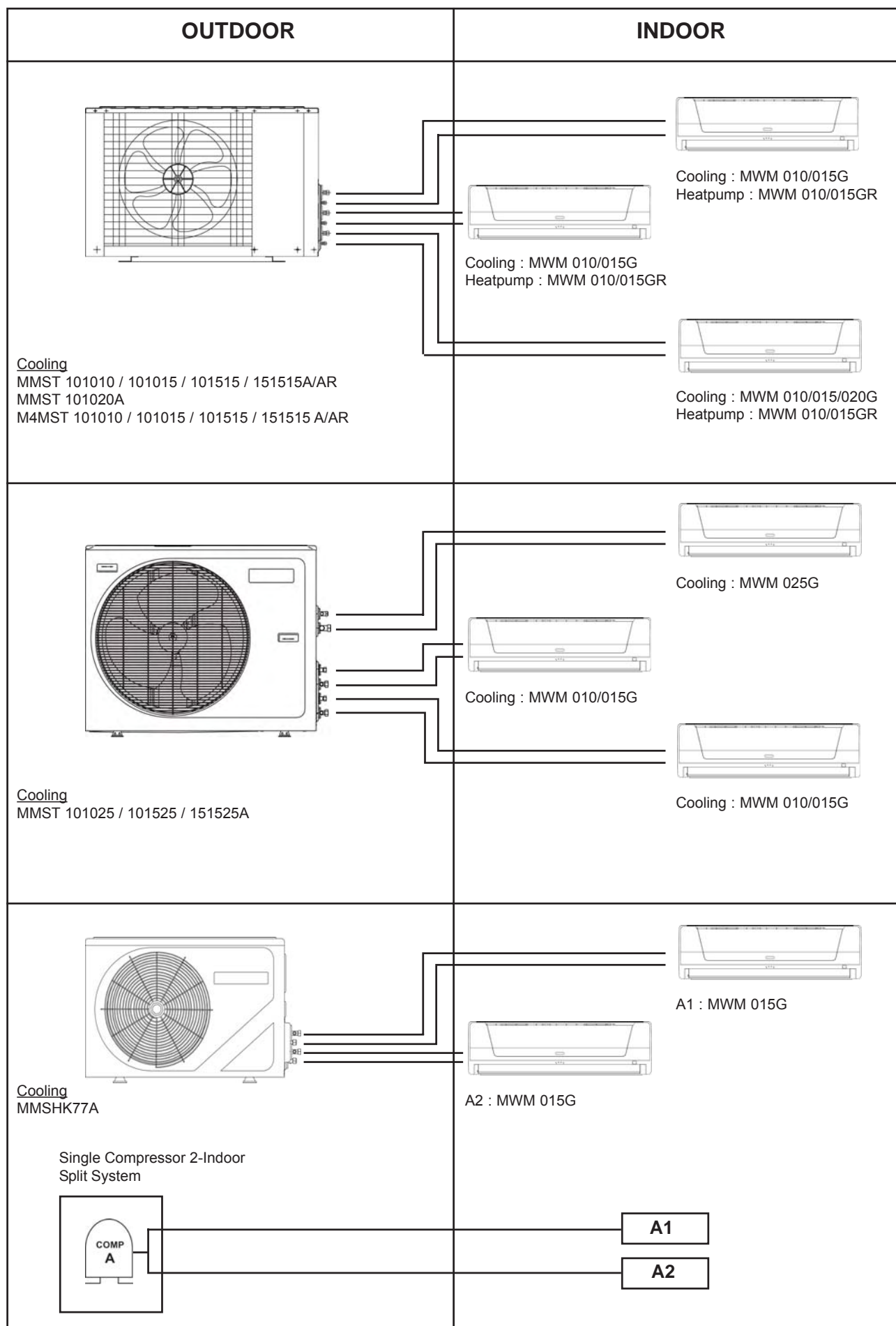
MODEL	A (cm)	B (cm)
MMSD/M4MSD 1010 / 1015 / 1515 A/AR	64.6	33.5
MMSD 1020A / 1520A/AR / 2020A	65.0	43.7
MMST/M4MST 101010 / 101015 / 101515 / 151515 A/AR	65.0	43.7
MMST 101020 / 101025 / 101520 / 101525 / 151520 / 151525 A		
MMSH 8K8A / 8K66A / 66K66A / 66K555A	64.6	33.5
MMSHK77A	49.4	27.5

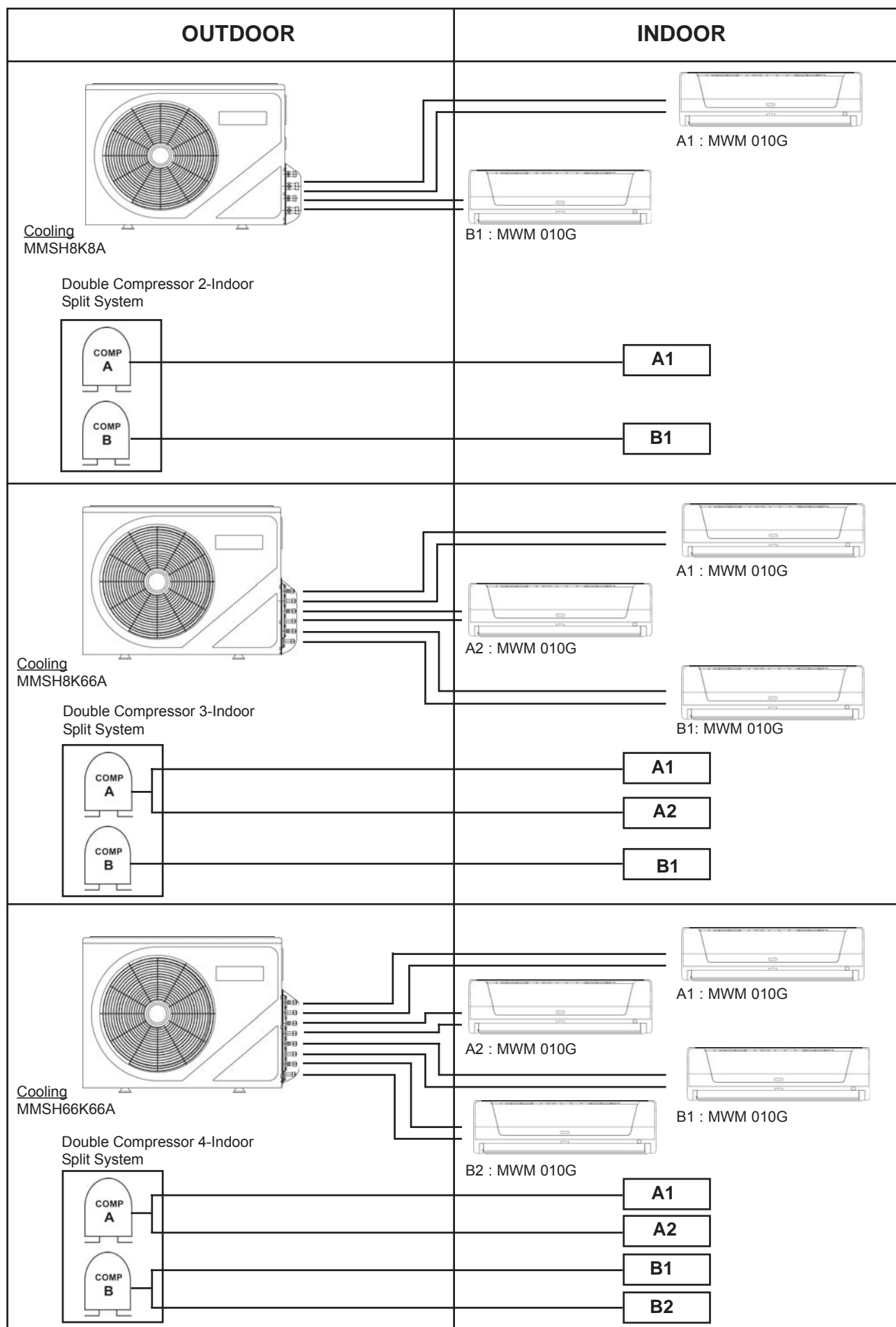


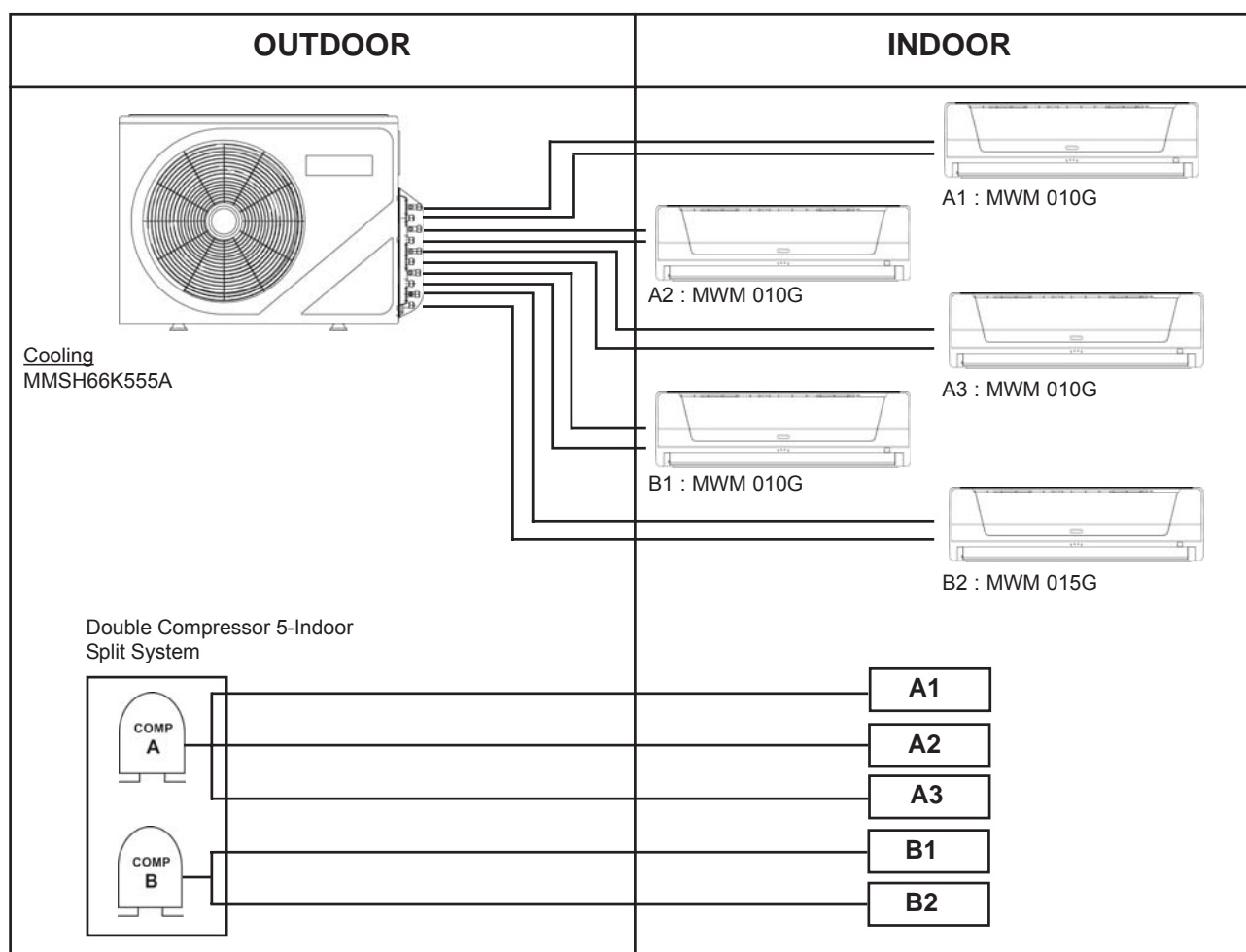
**Air  
Discharge**

## Coupling Versatility

OUTDOOR	INDOOR
 <p>Cooling MMSD / M4MSD 1010/1015/1515A Heatpump MMSD / M4MSD 1010/1015/1515AR MMSD 1520AR</p>	 <p>Cooling : MWM 010/015G Heatpump : MWM 010/015/020GR</p>  <p>Cooling : MWM 010/015G Heatpump : MWM 010/015GR</p>
 <p>Cooling MMSD 1020/1520A</p>	 <p>Cooling : MWM 020G</p>  <p>Cooling : MWM 010/015G</p>
 <p>Cooling MMSD 2020A</p>	 <p>Cooling : MWM 020G</p>  <p>Cooling : MWM 020G</p>





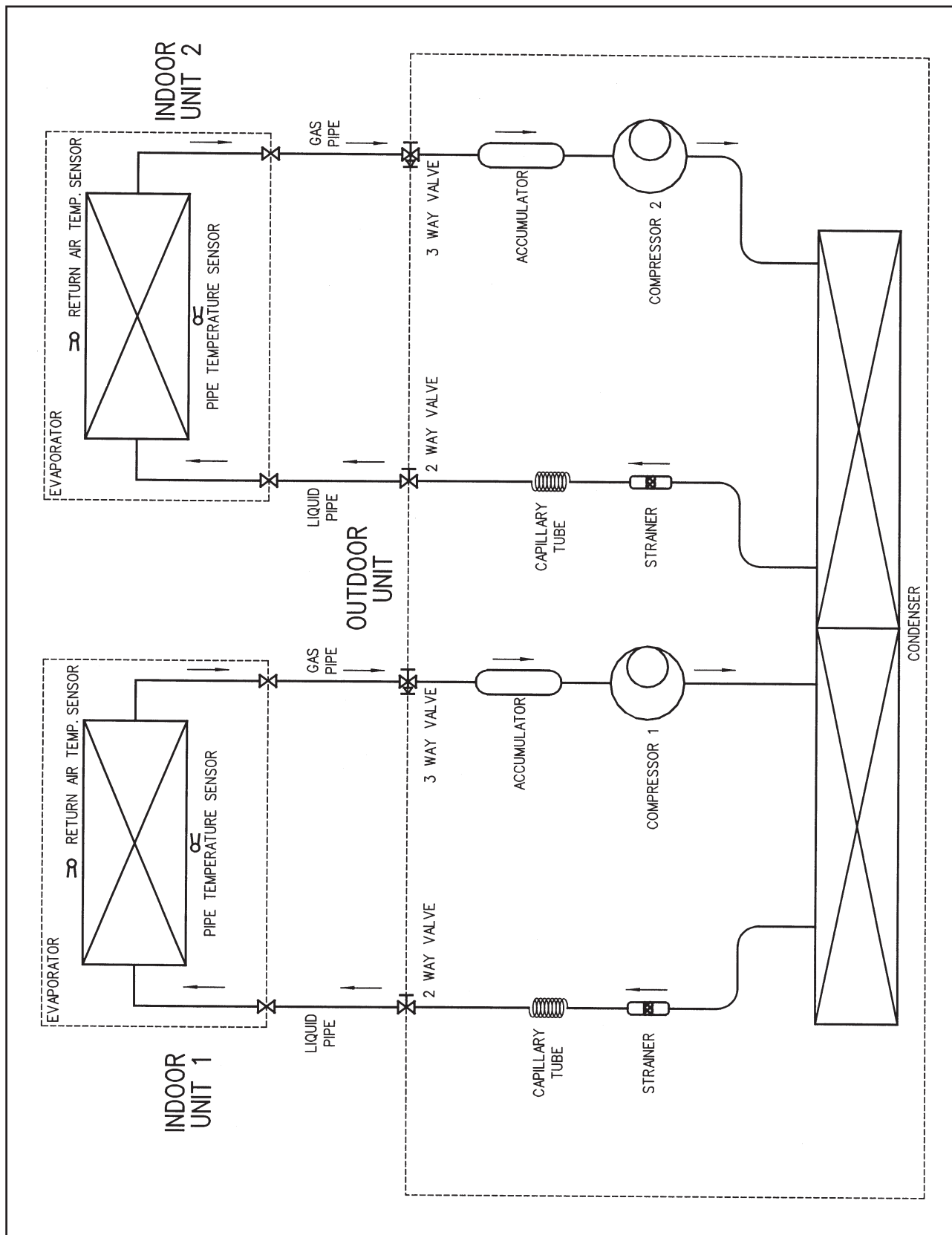


# Application Information

## Refrigerant Circuit Diagram

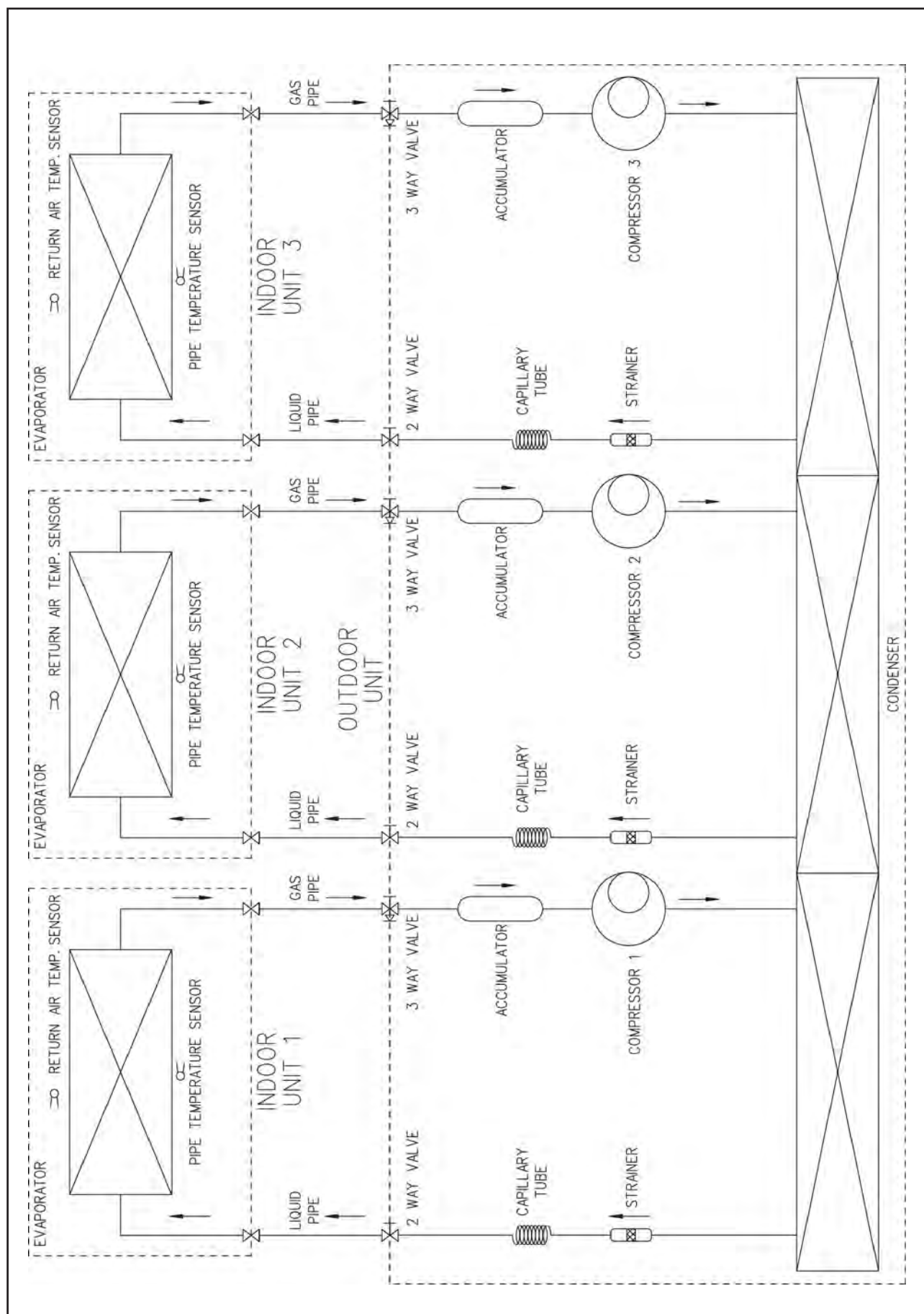
MODEL : MMSD 1010 / 1015 / 1515 / 1020 / 1520 / 2020 A

M4MSD 1010 / 1015 / 1515 A

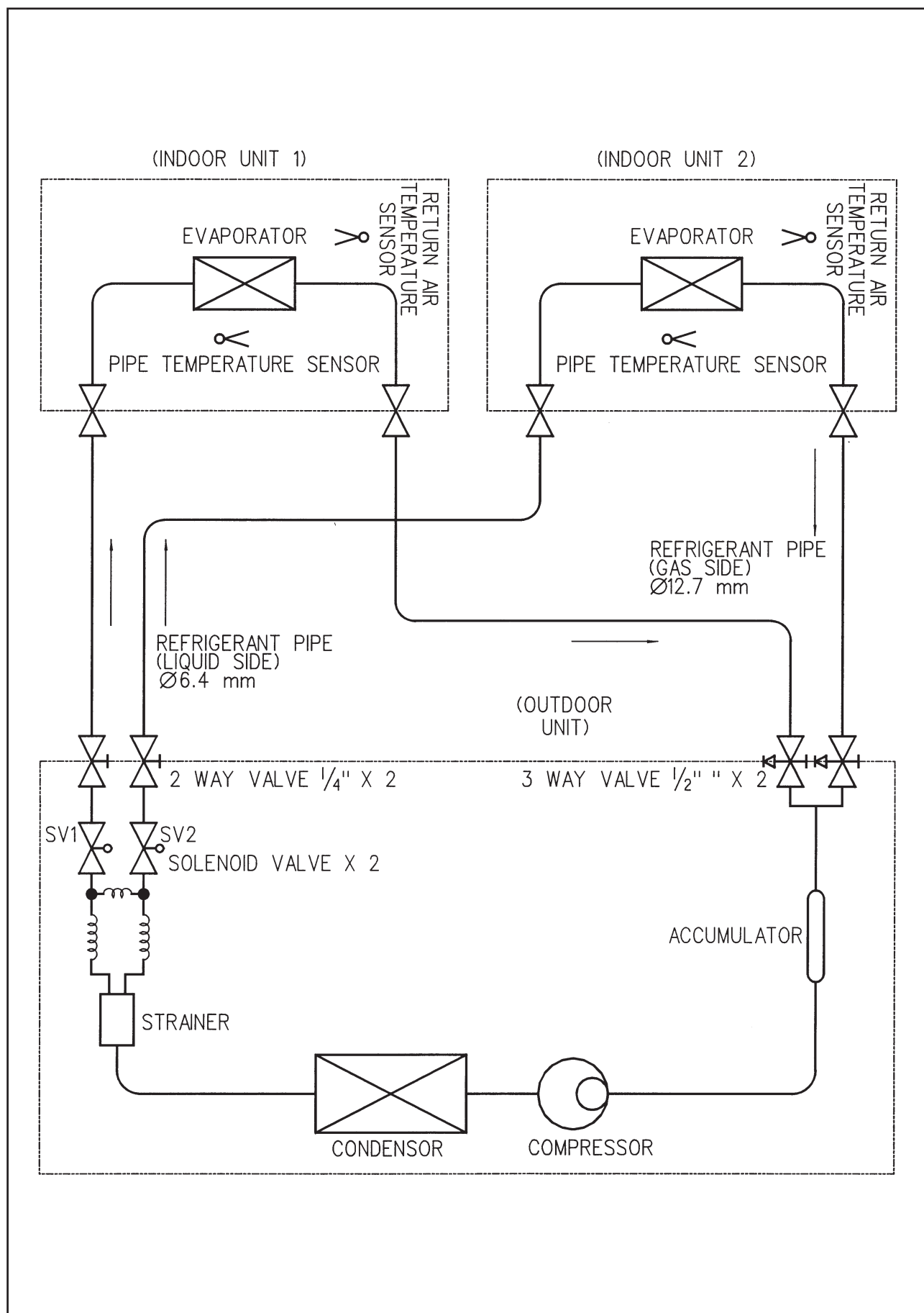




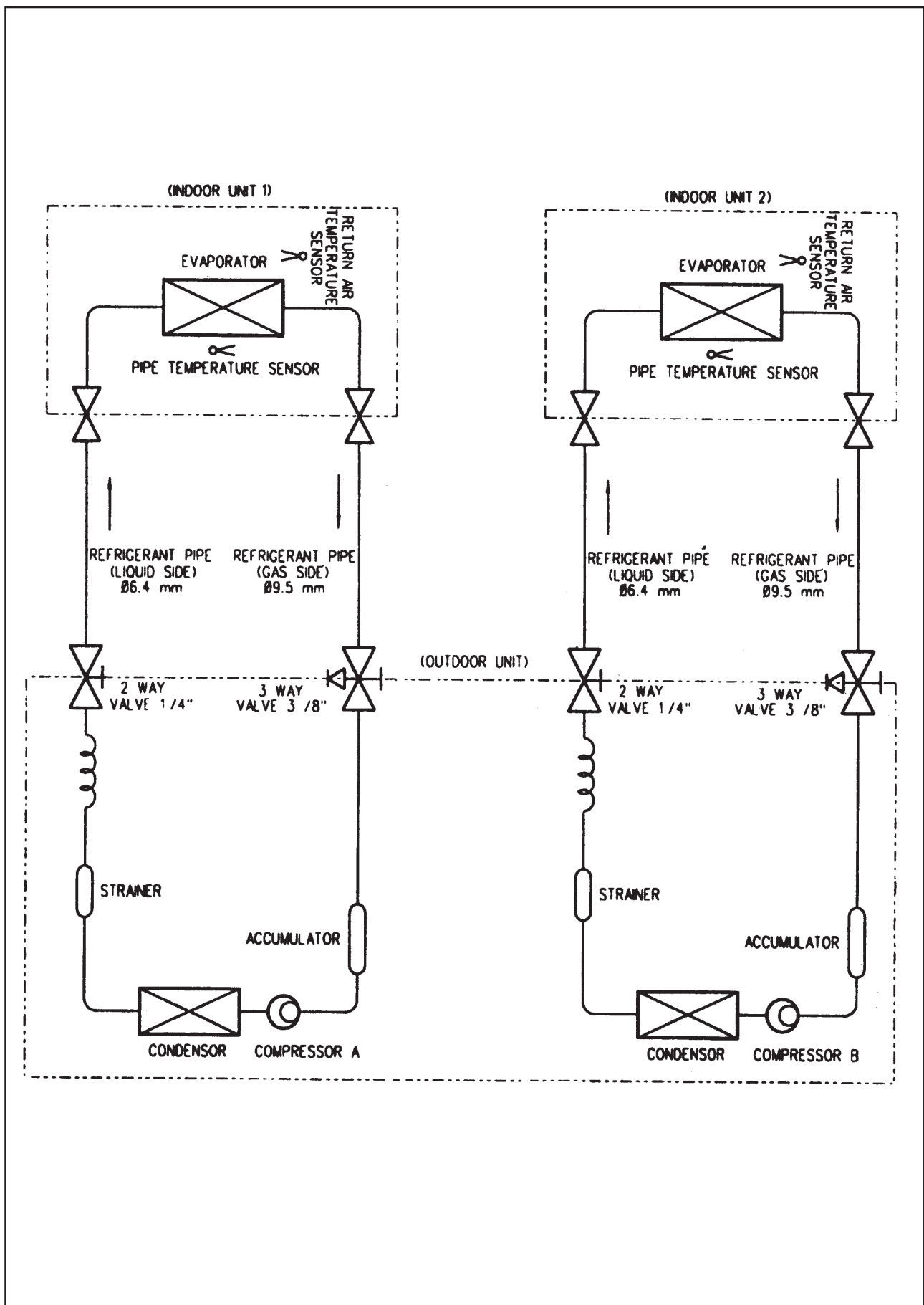
**MODEL : MMST/M4MST 101010 / 101015 / 101515 / 151515 A**  
**MMST 101020 / 101025 / 101520 / 101525 / 151520 / 151525 A**



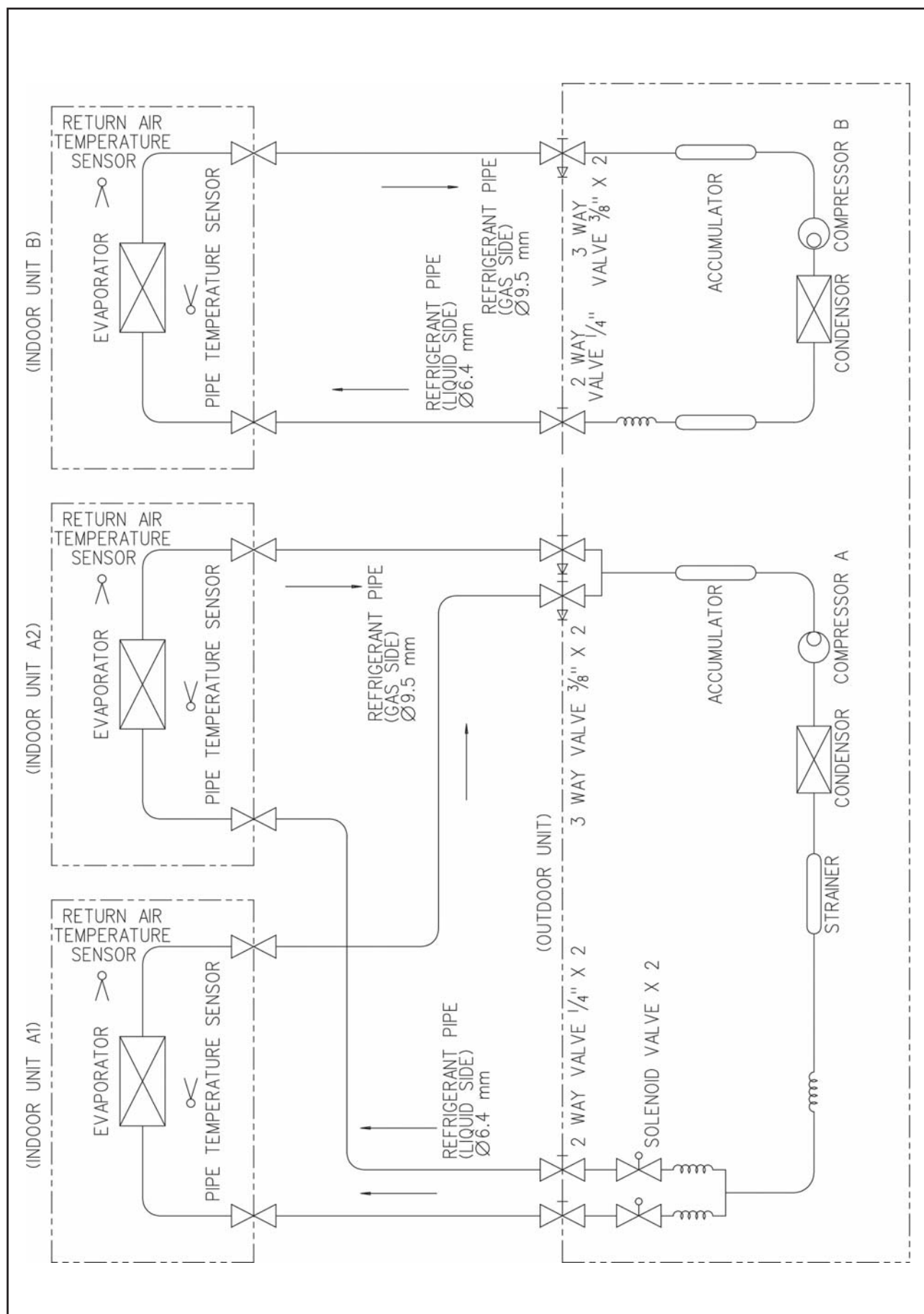
**MODEL : MMSHK77A**



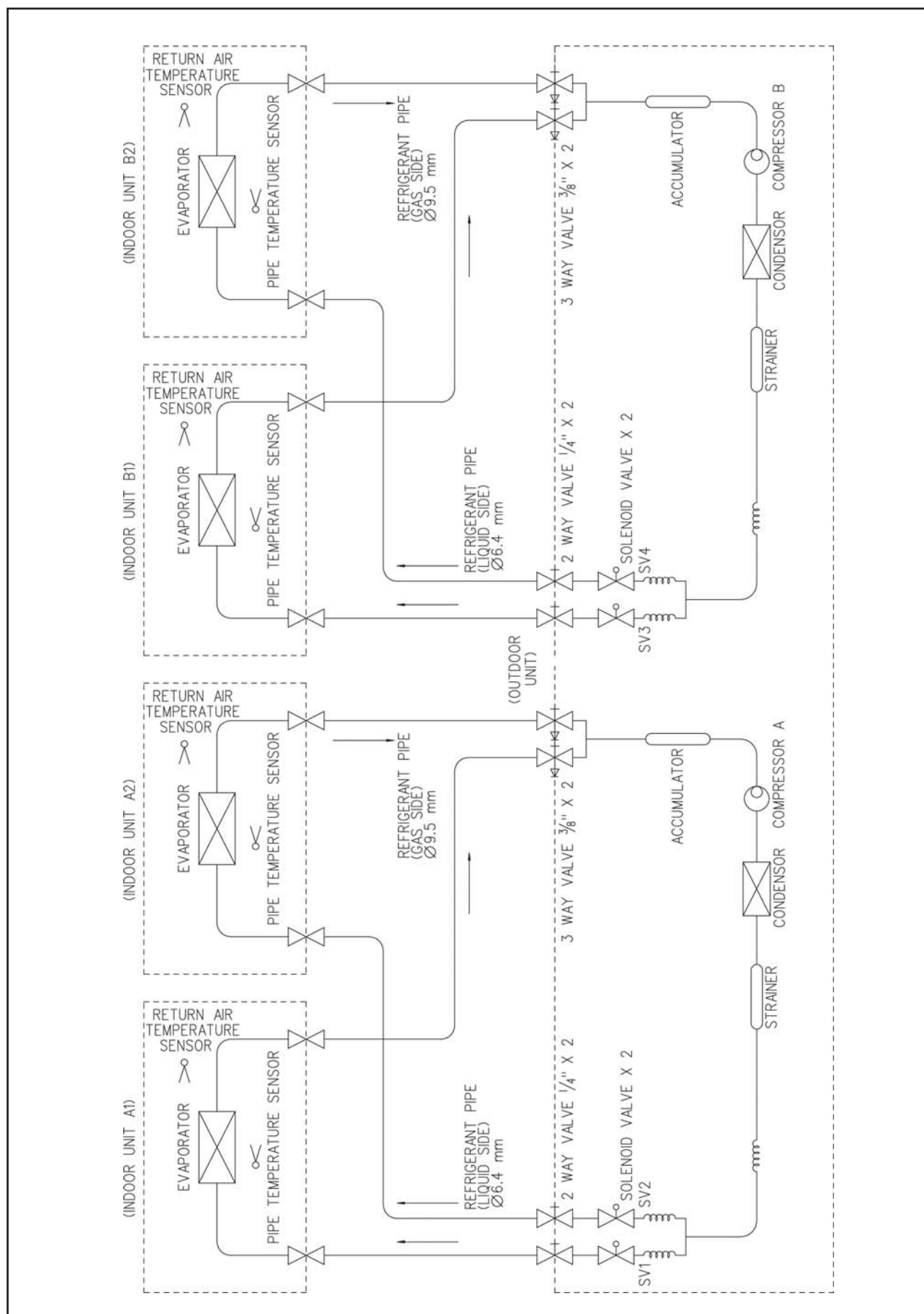
MODEL : MMSH8K8A



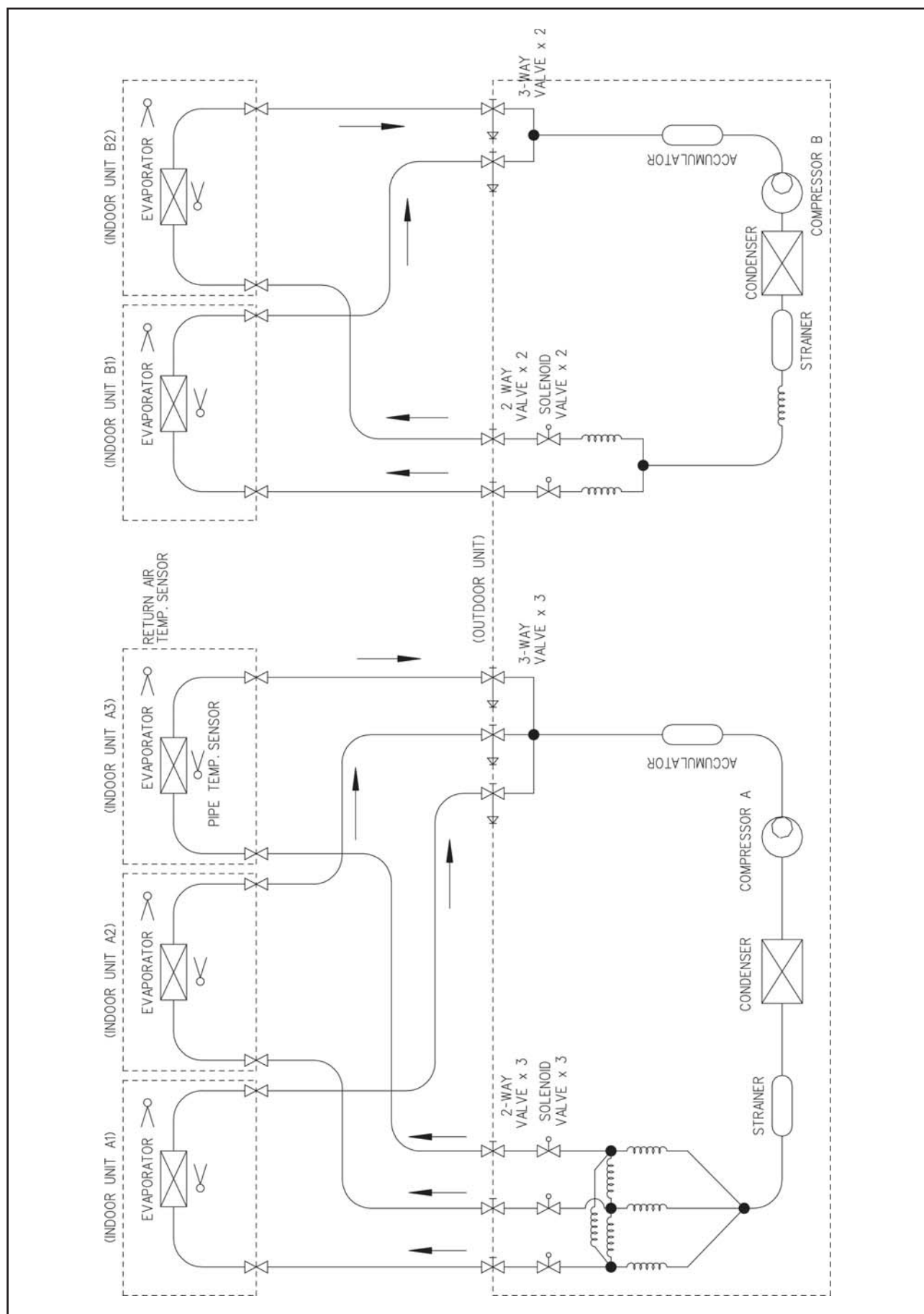
**MODEL : MMSH8K66A**



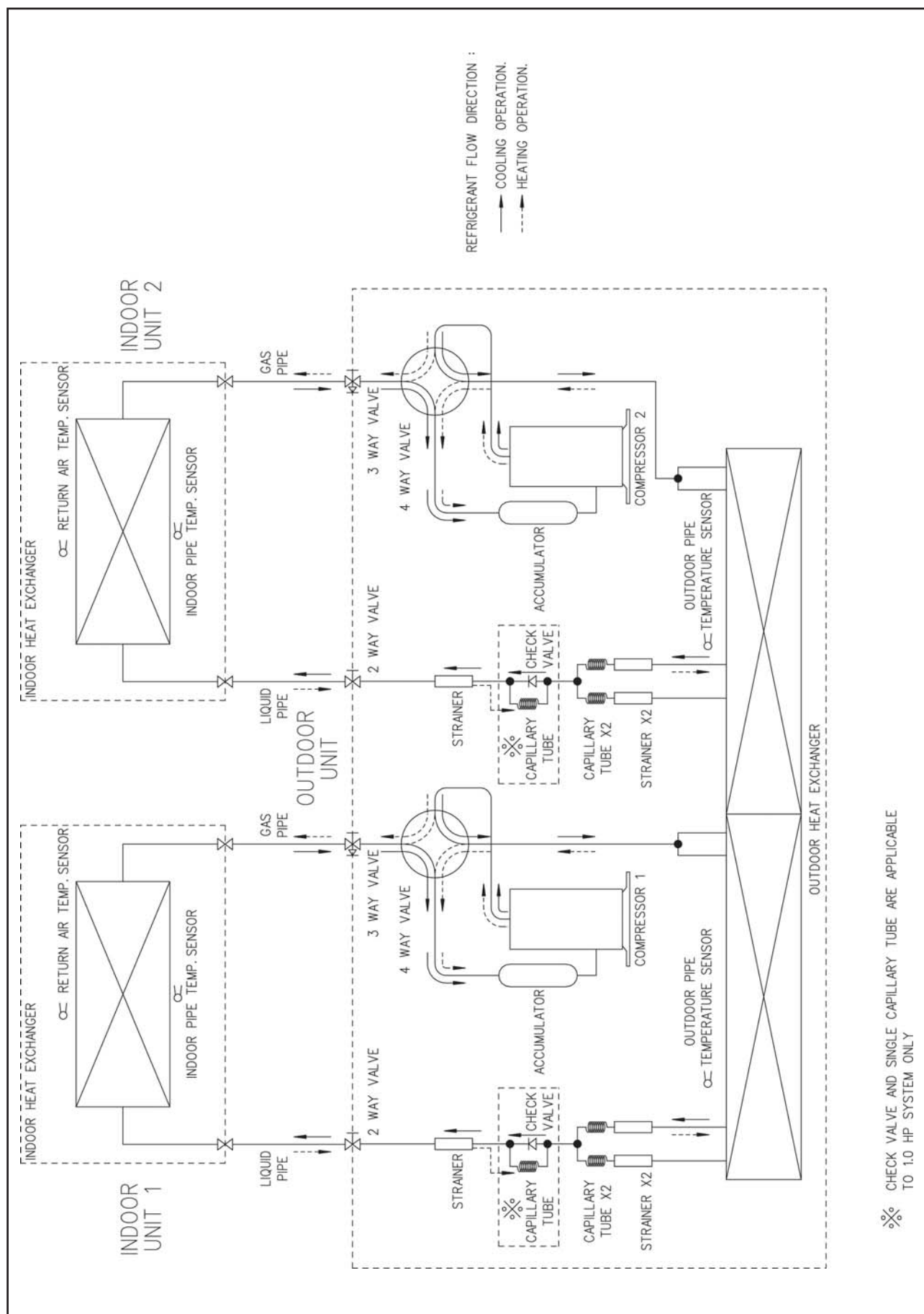
**MODEL : MMSH66K66A**



**MODEL : MMSH66K555A**

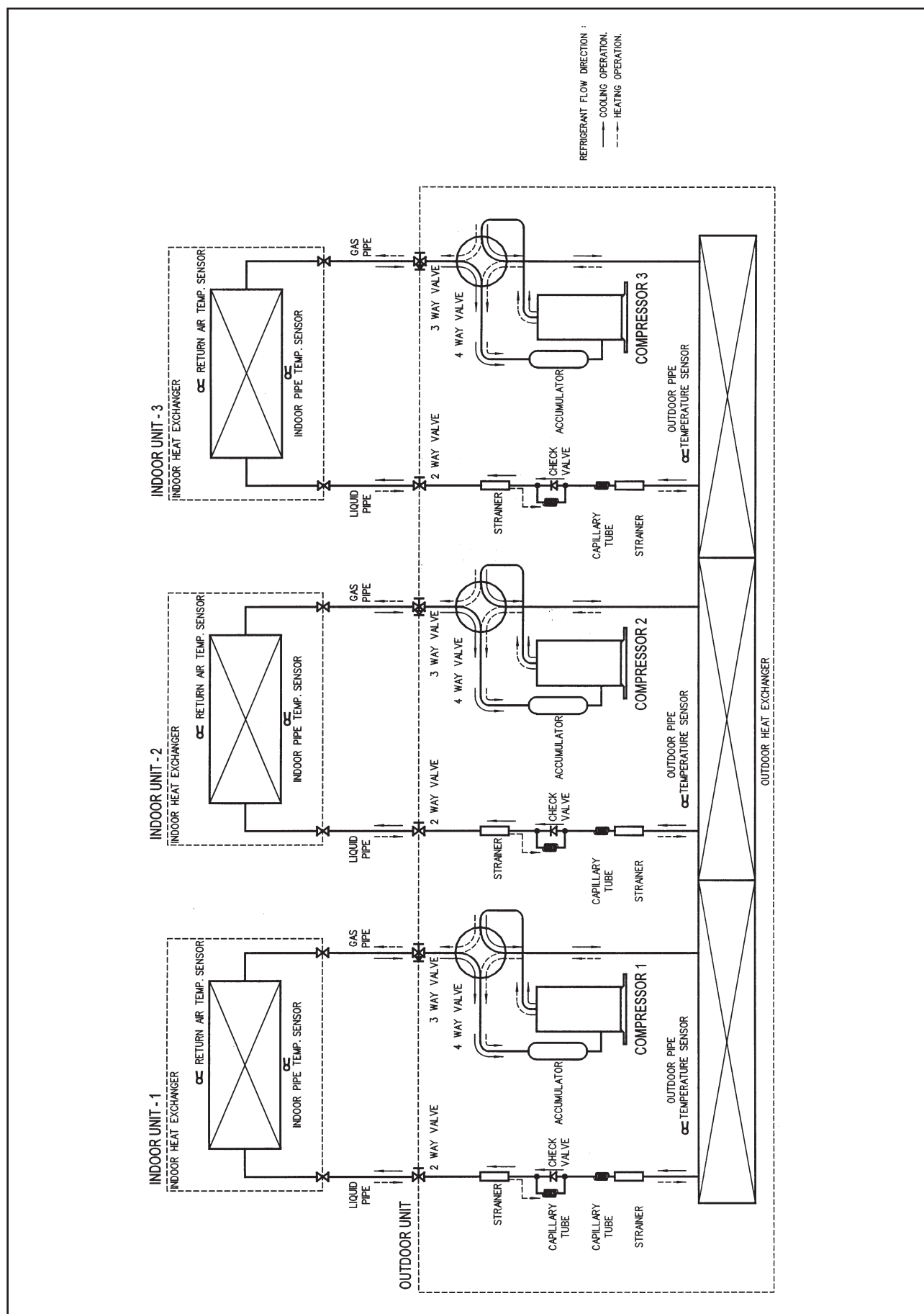


**MODEL : MMSD/M4MSD 1010 / 1015 / 1515 AR  
MMSD 1520AR**



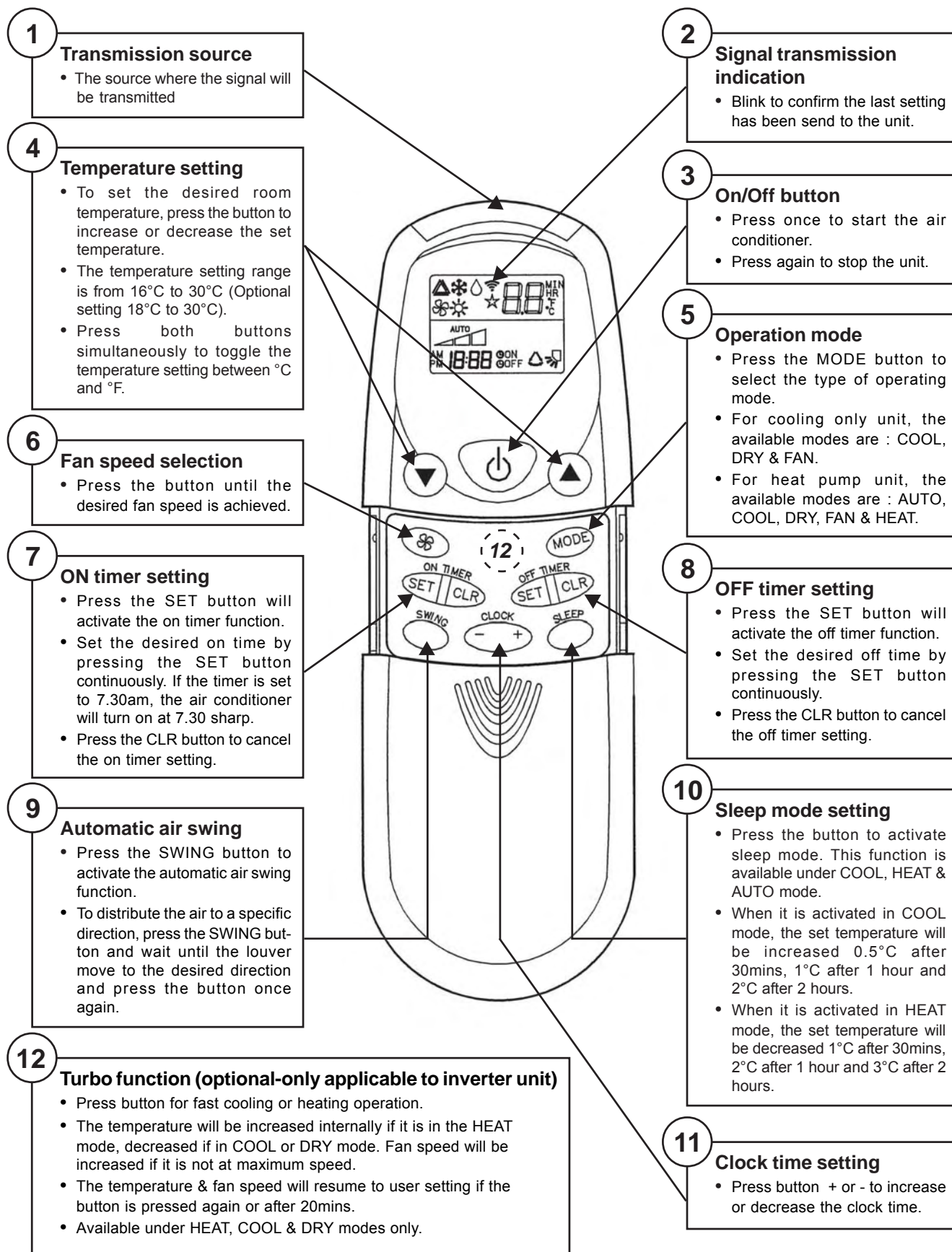


**MODEL : MMST / M4MST 101010 / 101015 / 101515 / 151515 AR**



## Controllers

### G7 Remote Controller



## G11 Remote Controller

### Temperature Setting

- To set the desired room temperature, press the button to increase or decrease the set temperature.
- The temperature setting range is from 16°C to 30°C
- Press both buttons simultaneously to toggle the temperature setting between °C and °F

### Turbo Mode

- Press the TURBO button to achieve the required set temperature in a short time.

### Sleep Mode

- Press the button to activate sleep mode. This function is available under COOL, HEAT & AUTO mode.
- When it is activated in COOL mode, the set temperature will be increased 0.5°C after 30mins, 1°C after 1 hour and 2°C after 2 hours.
- When it is activated in HEAT mode, the set temperature will be decreased 1°C after 30mins, 2°C after 1 hour and 3°C after 2 hours.

### ON Timer Setting

- Press the SET button will activate the on timer function.
- Set the desired on time by pressing the SET button continuously.
- Press the CLR button to cancel the off timer setting

### Clock Time Setting

- Press button + or - to increase or decrease the clock time.

### Ionizer

- Press the button to activate the negative Ion function, which will refresh the indoor air effectively.

### On/Off Button

- Press Once to start the air conditioner
- Press again to stop the unit

### Personalised Setting

- Press and hold the button for 3s to initiate personalized setting.
- Set the individual setting e.g. MODE, SET TEMP or FAN SPEED and leave for 4s to save
- 2 groups of settings are allowed to stored in the handset

### Fan Speed Selection

- Press the button until the desired fan speed is achieved.

### Operating Mode

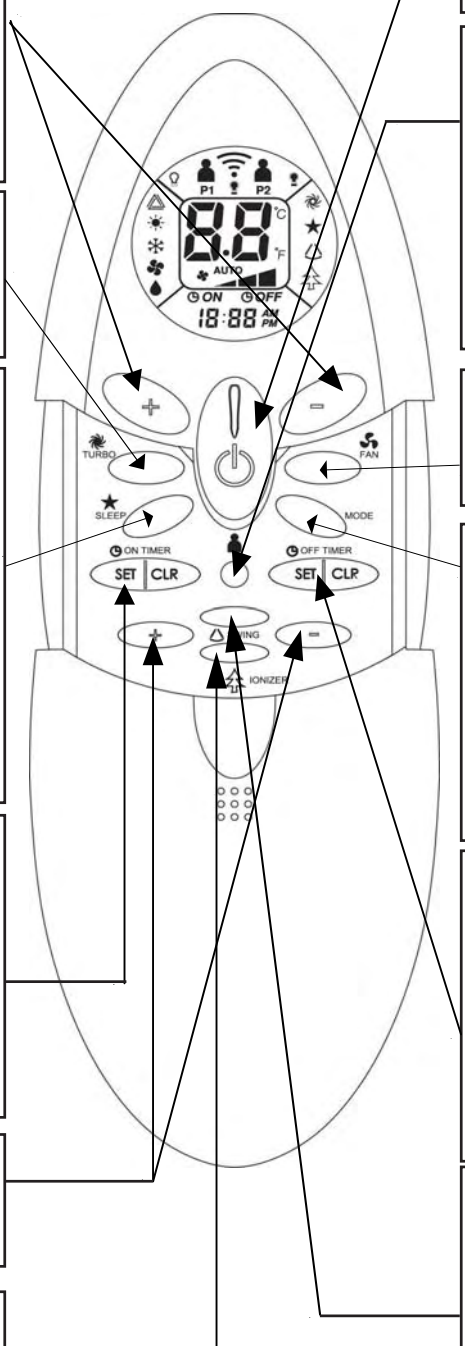
- Press the MODE button to select the type of operating mode.
- For Cooling only unit, the available modes are: COOL, DRY & FAN.
- For Heatpump unit, the available modes are: AUTO, COOL, DRY, FAN & HEAT.

### OFF Timer Setting

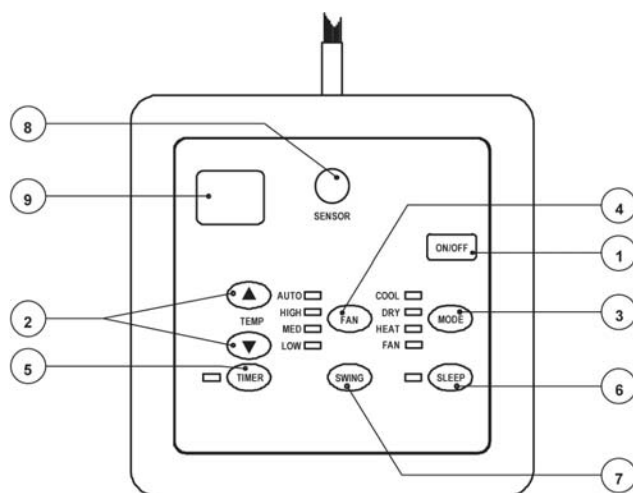
- Press the SET button will activate the off timer function.
- Set the desired off time by pressing the SET button continuously.
- Press the CLR button to cancel the off timer setting

### Automatic Air Awing

- Press the SWING button to activate the automatic air swing function.
- To distribute the air to a specific direction, press the SWING button and wait until the louver move to the desired direction and press the button once again.



## SLM Operating Instructions



### SLM

#### 1. "ON/OFF" switch

- Press to start the air conditioner unit.
- Press again to stop the unit.

#### 2. Temperature setting

- Set the desired room temperature.
- Press button to increase or decrease the set temperature. Setting range are between 16°C to 30°C (60°F to 80°F).

#### 3. Operation Modes

- Press the "mode" button for select the type of operating mode.

- Cooling Only :  
COOL, DRY, FAN

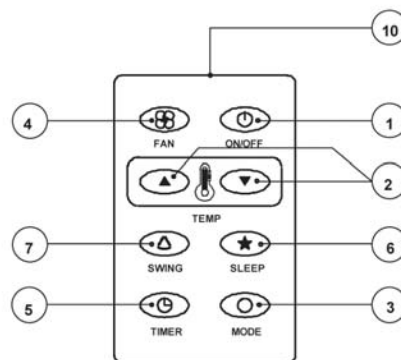
- Heat Pump :  
AUTO, COOL, DRY, HEAT, FAN  
(AUTO mode is represented by both COOL and HEAT LED light on)

#### 4. Fan Speed selection

- Press the button until the desired fan speed is achieved.

#### 5. Timer

- Press the set button to select the switch timer of the air conditioner unit (the setting range is between 1 to 10 hours).



### AC-5300 (OPTIONAL)

#### 6. "Sleep" mode

- Press button to activate the sleep function can only be activated under "cool" or heating mode operation. When it is activated under "cool" mode operation, the set temperature will increase 0.5°C after 30 minutes, 1°C after 1 hour and 2°C after 2 hours. If it is activated under "HEAT" mode operation, the set temperature will be decreased 0.5°C after 30 minutes, 1°C after 1 hour and 2°C after 2 hours.

#### 7. Air Swing

- Press button to activate the automatic air swing function.

#### 8. Sensor

- Infra red sensor to receive signals from wireless controller.

#### 9. LED Display

- To display the set temperature (in °C) and timer delay setting (in hours).

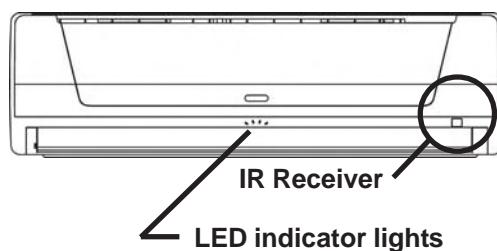
#### 10. Transmission source

- To transmit signals to the air conditioner.

## Indicator Lights

### IR signal receiver

When an operating signal is sent via the infrared remote control, the signal receiver in the indoor unit will make a beep sound signaling acceptance confirmation.



The table below shows the LED indicator lights for air conditioner unit under normal operation and fault condition. The LED indicator lights are located at the middle of the air conditioner unit.

The heat pump unit is equipped with an “auto” mode, whereby the unit will provide reasonable room temperature by switching the unit automatically to either “cool” mode or “heat” mode, according to the temperature setting set by the user.

### LED Indicator Lights Display

	COOL / HEAT		TIMER
	IONIZER		SLEEP MODE

### LED Indicator Lights : Normal Operation And Faulty Indication Table

	 COOL/HEAT (GREEN/RED)			Normal Operation / Fault Indication	Action
○/●	○ Green		○/●	Cool mode	-
○/●	○ Red		○/●	Heat mode	-
○/●	○ Red	●		Auto mode in heating operation	-
○/●	○ Green	●		Auto mode in cooling operation	-
	○	○		Timer on	-
○	○			Sleep mode on	-
	○		○	Ionizer on	-
		●		Room air sensor contact Loose / Short Outdoor coil sensor contact Loose / Short	Call your dealer
●		●		Indoor coil sensor contact Loose / Short	Call your dealer
	●	●		Compressor overload protection trip or gas leak	Call your dealer
	● Red			Defrost operation	-

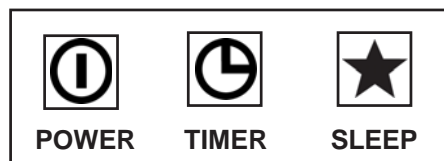
○ - ON

○/● - ON or OFF

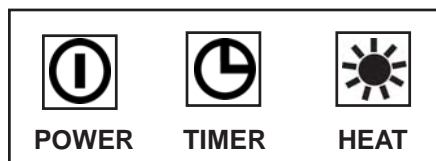
● - Blinking





## Operating State and Fault Table

### Wireless Remote Control Cooling : LED Indicator Light Display



### Heatpump : LED Indicator Display



 POWER	 TIMER	 SLEEP	 HEAT	Normal Operation / Fault Indication
○				Cool Mode
○	○			Timer On
○		○		Sleep Mode On
○			○	Heat Mode
○			◐	Auto Mode - Cool
○			○	Auto Mode - Heat
	◐ 1 Time			Compressor - Overload
	◐ 2 Times			Pump Fault
	◐ 3 Times			Gas Leak
◐ 1 Time				Room Sensor Open Or Short
◐ 2 Times				Indoor Coil Sensor Open Or Short
◐ 3 Times				Outdoor Coil Sensor Open Or Short

○ - ON

○/● - ON or OFF

◐ - Blinking

### Wired Remote Control (Universal)

#### Cooling / Heatpump Model

Error Code at 7 Segment Display	Operation / Faulty Indication
Blink E1	Room sensor contact open or short
Blink E2	Indoor coil sensor contact open
Blink E3	Outdoor coil sensor contact open
Blink E4	Compressor overload / Indoor coil sensor short / Outdoor coil sensor short
Blink E5	Gas leak
Blink E6	Water pump faulty
Blink Heat LED	Outdoor defrost (for Heatpump only)

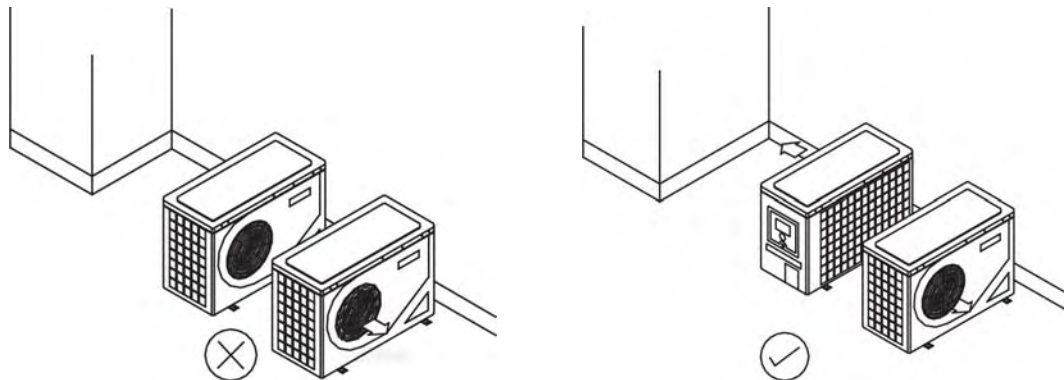


## Precaution And Installation

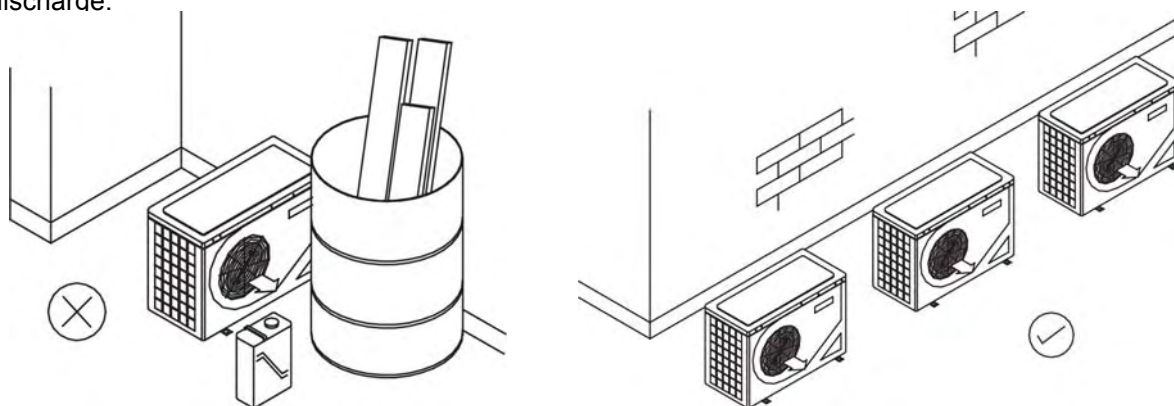
### Location For Installation Of The Condensing Units

As condensing temperature rises, evaporating temperature rises and cooling capacity drops. In order to achieve maximum cooling capacity, the location selected for outdoor unit should fulfill the following requirements :

Install the condensing (outdoor) unit in a way such that hot air distributed by the outdoor condensing unit cannot be drawn in again (as in the case of short circuit of hot discharge air). Allow sufficient space for maintenance around the unit.



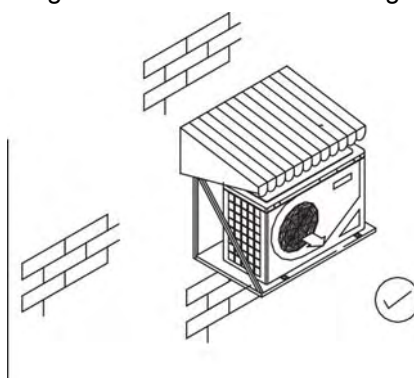
Ensure that there is no obstruction of air flow into or out of the unit. Remove obstacles which block air intake or discharge.



The location must be well ventilated, so that the unit can draw in and distribute plenty of air thus lowering the condensing temperature.

A place capable of bearing the weight of the outdoor unit and isolating noise and vibration.

A place protected from direct sunlight. Otherwise use an awning for protection, if necessary.

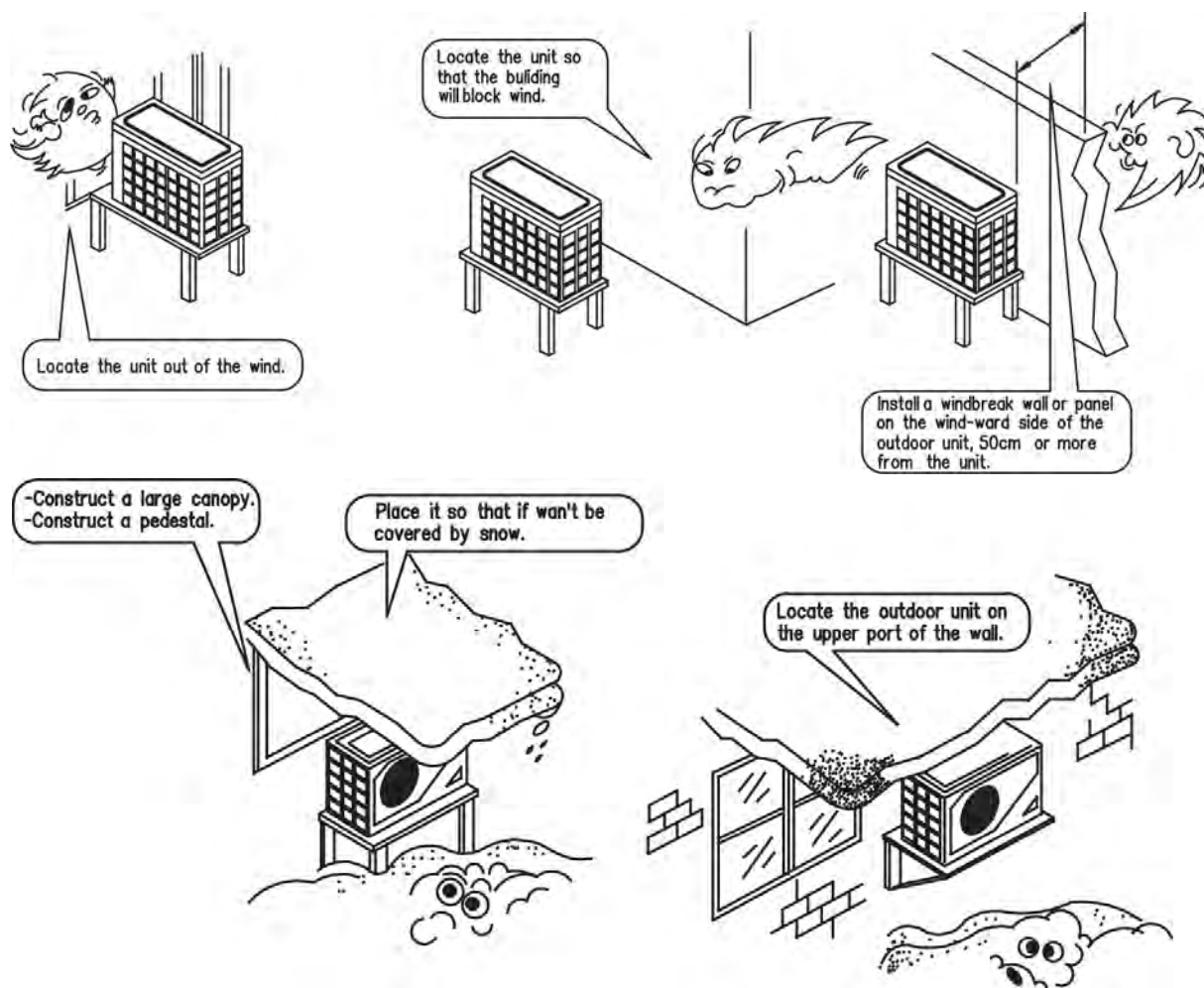


The location must not be susceptible to dust or oil mist.

**CAUTION** : If the condensing unit is operated in an atmosphere containing oils (including machine oils), salt (coastal area), sulphide gas (near hot spring, oil refinery plant), such substances may lead to failure of the unit.



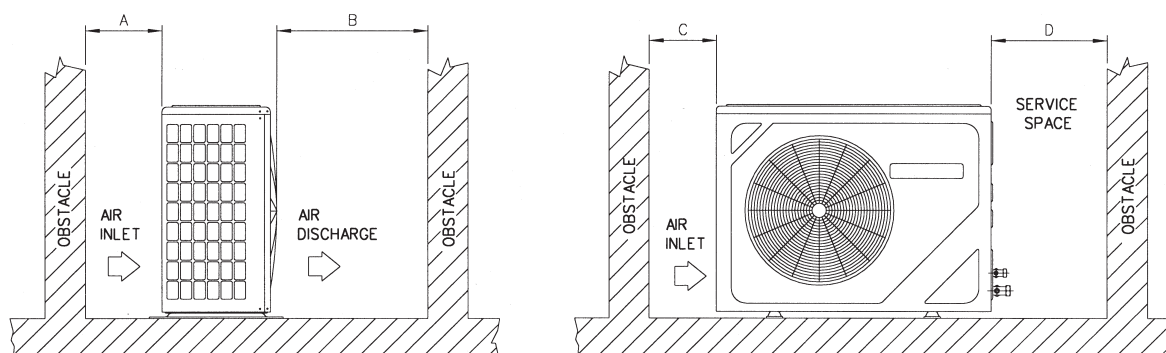
## Installation In Zone Exposed To Strong Wind Or High Snow Falls (For Heatpump Model)



## Installation Clearance

### Single Condensing Unit Installation

Outdoor units must be installed such that there is no short circuit of the hot discharge air or obstruction to smooth air flow. Select the coolest possible place where intake air should not be hotter than the outside temperature (max. 45°C)



All Models	A	B	C	D
Minimum Distance	300 mm	1000 mm	300 mm	500 mm

NOTE :- (1) If any obstacle is higher than 2 m, or if there is any obstruction at the upper part of the unit, allow more space than indicated in the table above.

### Maximum Pipe Length And Maximum Number Of Bends

When the pipe length becomes too long, both the capacity and reliability drop. As the number of bends increases, system piping resistance to the refrigerant flow increases, lowering the cooling capacity. As a result of this, the compressor may become defective. Always choose the shortest path and follow the recommendations as tabulated below :

MODEL DATA	MMSD / M4MSD		
	1010A - 1515A	1020A - 1520A	2020A
Max. Length (L) m	12 / 12	12 / 15	15 / 15
Max. elevation (H) m	5 / 5	5 / 8	8 / 8
Max. No. of Bends	10 / 10	10 / 10	10 / 10

MODEL DATA	MMST / M4MST	MMST	
	101010A - 151515A/AR	101020A	101025A - 151525A
Max. Length (L) m	12 / 12 / 12	12 / 12 / 15	12 / 12 / 15
Max. elevation (H) m	5 / 5 / 5	5 / 5 / 8	5 / 5 / 8
Max. No. of Bends	10 / 10 / 10	10 / 10 / 10	10 / 10 / 10

Model	Circuitry	Max. Individual L1 or L2 (m)	*Max. Total L1 + L2 (m)	*Max. Length Difference L1 – L2 (m)	Max. Elevation H (m)	*Max. Height Difference H (m)	*Max. Number of bends
MMSH8K8A	COMP. A	12	-	-	5	-	10
	COMP. B	12	-	-	5	-	10
MMSH8K66A	COMP. A	12 / 12	20	8	5	7	10
	COMP. B	12	-	-	5	-	10
MMSH66K66A	COMP. A	12 / 12	20	8	5	7	10
	COMP. B	12 / 12	20	8	5	7	10
MMSH66K555A	COMP. A	12 / 12	20	8	5	7	10
	COMP. B	12 / 12	20	8	5	7	10

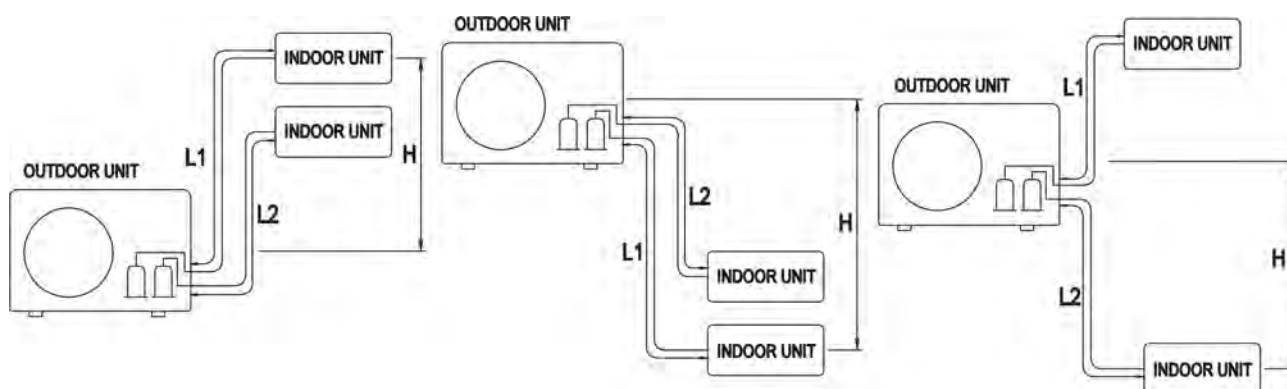
\* For units sharing the same compressor only.

### CAUTION :

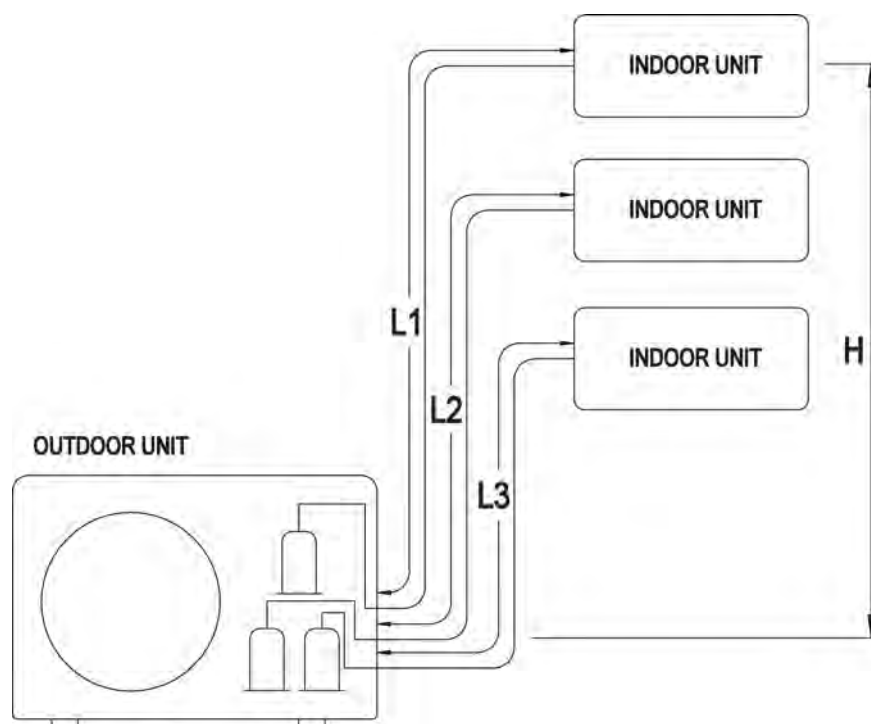
Our guarantee on the performance of our air-conditioners will be revoked if the height, length and/or the number of bends of the refrigerant piping system installed is beyond our recommended limit.

Bendings must be carefully made so as not to crush the pipe. Use a pipe bender to bend a pipe as far as possible.

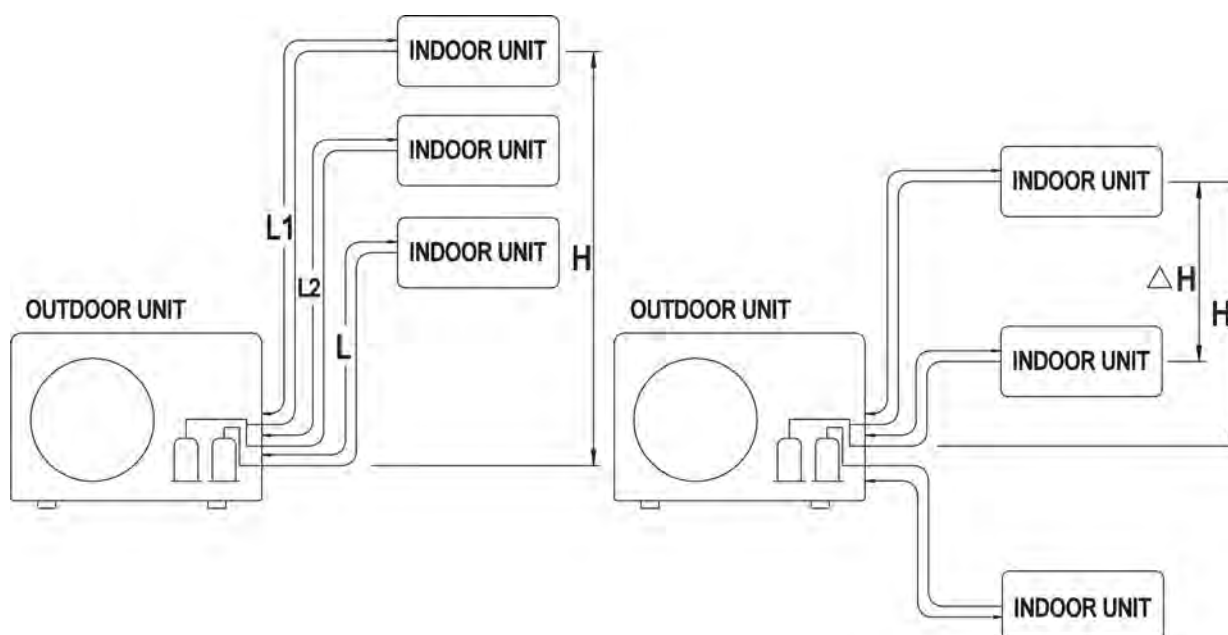
#### 1) MMST / M4MST



2) MMST / M4MST

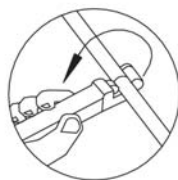
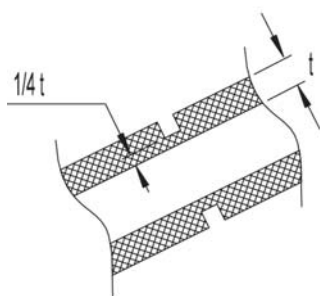


3) MMSH



### Flaring Technique (For Flare Connection)

Cut the pipe stages by stages, advancing the blade of pipe cutter slowly. Extra force and a deep cut will cause more distortion of pipe and therefore, extra burr.

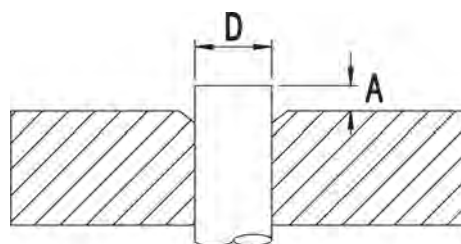


Remove burr with the burr remover. This will avoid unevenness on the flare face which will cause gas leak. Hold the flaring end down to prevent burr from dropping inside pipe.



The exact length of pipe protruding from the face of the flare die is determined by the flaring tool. The table shows the use of an imperial die and rigid die.

PIPE Ø (MM)	A(MM)	
	IMPERIAL DIE	RIGED DIE
6.35 (¼")	1.3	0.7
9.52 (3/8")	1.6	1
12.7 (½")	1.9	1.3
15.88 (5/8")	2.2	1.7



Fix the pipe firmly on the flare die. Match the centers of both the flare die and the flaring punch. Tighten flaring punch fully.

### Vacuumping And Charging

The pre-charged outdoor unit does not need any vacuuming or charging. However once it is connected, the connecting pipe line and the indoor need to be vacuumed before releasing the R22 from the outdoor unit.

- 1) Open the service port core cap.
- 2) Connect pressure gauge to the service port.
- 3) Connect the line to vacuum pump. Open the charging manifold valve and turn the pump on (Diagram 1).  
Evacuation time varies by the capacity of the pump but within 1 hour.
- 4) Repeat step 1 to step 3 for every indoor with respect to the correct pair of flare valve.
- 5) After evacuation, unscrew the spindle (diagram 2B) for the gas to run to indoor unit.

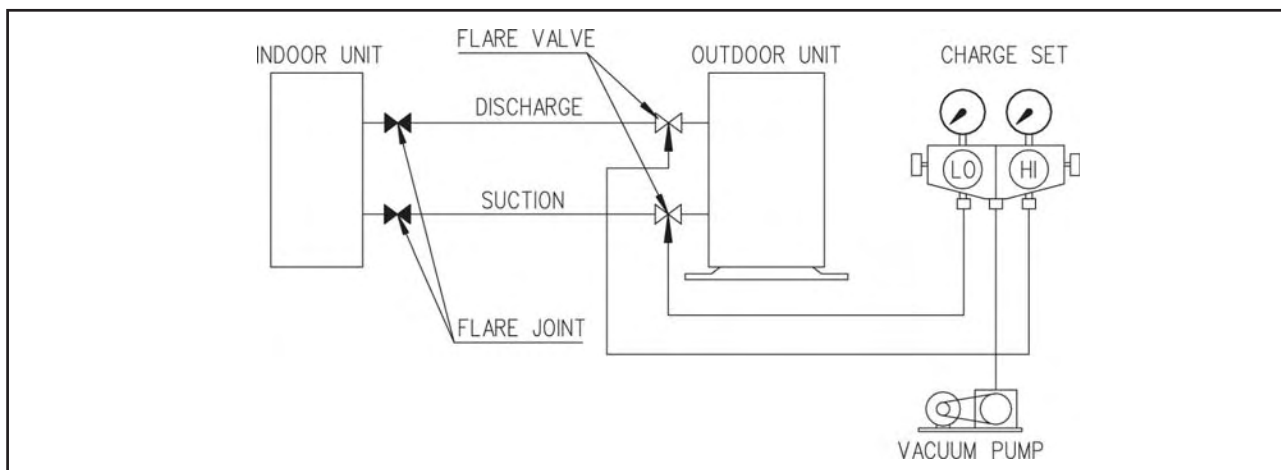


Diagram 1

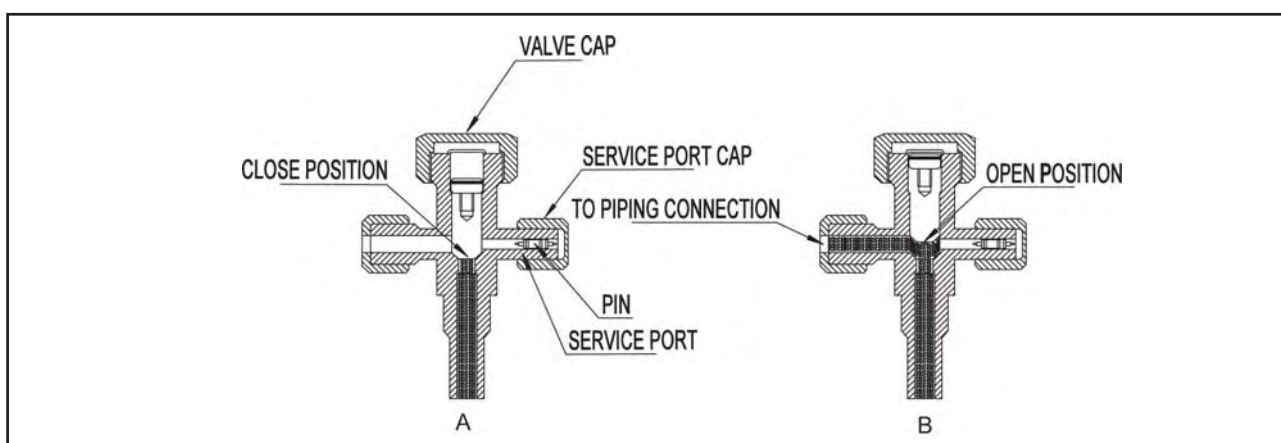


Diagram 2

### Additional Charge (For Flare Connection)

The refrigerant gas is charged in the outdoor unit and, if the piping length to every indoor is 7.62m, additional charge of the refrigerant after vacuuming is not necessary.

When the piping length to every indoor is more than 7.62m, please add 15g of refrigerant for every addition of 1m pipe length.

Diagram 3 shows typical charging method.

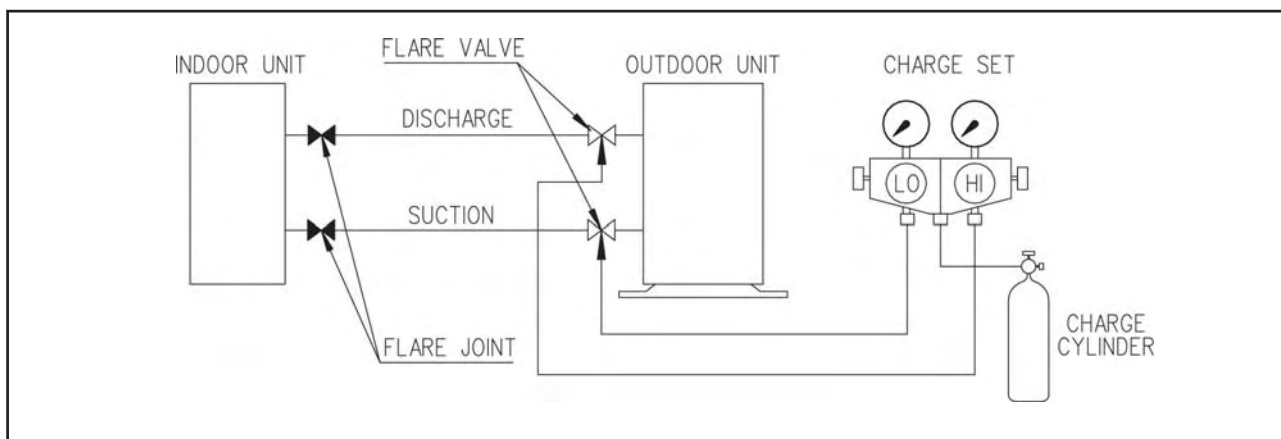


Diagram 3

## Special Precautions When Dealing With Refrigerant R407C Unit

### 1) What is new refrigerant R407C?

R407C is a zeotropic refrigerant mixture which has Zero Ozone Depletion Potential (ODP = 0) and thus conformed to the Montreal Protocol regulation. It requires Polyol-ester oil (POE) oil for its compressor's lubricant. Its refrigerant capacity and performance are about the same as the refrigerant R22.

### 2) Components

Mixture weight composition R32(23%), R125(25%), R134a(52%)

### 3) Characteristic

- R407C liquid and vapor components have different compositions when the fluid evaporates or condenses. Hence, when leak occurs and only vapor leaks out, the composition of the refrigerant mixture left in the system will change and subsequently affect the system performance. **DO NOT** add new refrigerant to leaked system. It is recommended that the system should be evacuated thoroughly before recharging with R407C.
- When refrigerant R407C is used, the composition will differ depending on whether it is in gaseous or liquid phase. Hence when charging R407C, ensure that only liquid is being withdrawn from the cylinder or can. This is to make certain that only original composition of R407C is being charged into the system.
- POE oil is used as lubricant for R407C compressor, which is different from the mineral oil used for R22 compressor. Extra precaution must be taken not to expose the R407C system too long to moist air.

### 4) Check list before installation/servicing

- Tubing  
Refrigerant R407C is more easily affected by dust or moisture compared with R22, make sure to temporarily cover the ends of the tubing prior to installation
- Compressor oil  
No additional charge of compressor oil is permitted.
- Refrigerant  
No other refrigerant other than R407C
- Tools  
Tools specifically for R407C only (must not be used for R22 or other refrigerant)
  - i) Gauge manifold and charging hose
  - ii) Gas leak detector
  - iii) Refrigerant cylinder/charging cylinder
  - iv) Vacuum pump c/w adapter
  - v) Flare tools
  - vi) Refrigerant recovery machine

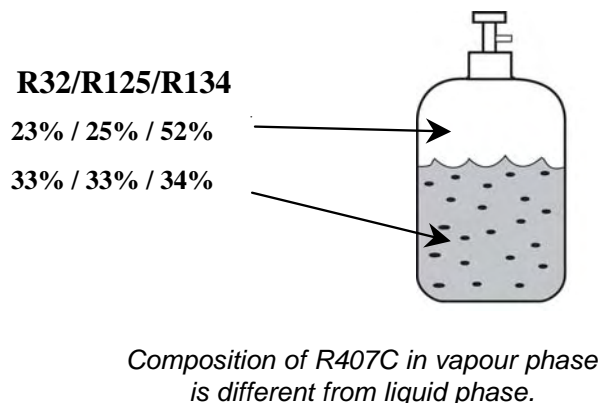
### 5) Handling and installation guidelines

Like R22 system, the handling and installation of R407C system are closely similar. All precautionary measures; such as ensuring no moisture, no dirt or chips in the system, clean brazing using nitrogen, and thorough leak check and vacuuming are equally important requirements. However, due to zeotropic nature of R407C and its hygroscopic POE oil, additional precautions must be taken to ensure optimum and trouble free system operation.

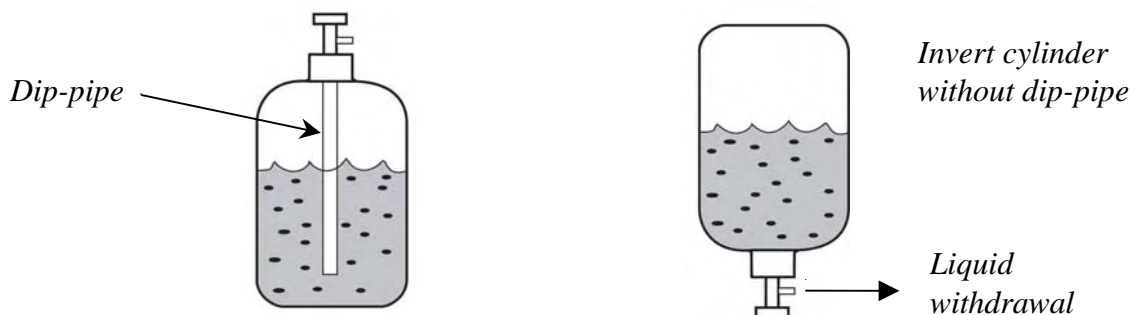
- a) Filter dryer must be installed along the liquid line for all R407C air conditioners. This is to minimise the contamination of moisture and dirt in the refrigerant system. Filter dryer must be of molecular sieve type. For a heat pump system, install a two-way flow filter dryer along the liquid line.
- b) During installation or servicing, avoid prolonged exposure of the internal part of the refrigerant system to moist air. Residual POE oil in the piping and components can absorb moisture from the air.



- c) Ensure that the compressor is not exposed to open air for more than the recommended time specified by its manufacturer (typically less than 10 minutes). Remove the seal plugs only when the compressor is about to be brazed.
- d) The system should be thoroughly vacuumed to 1.0 Pa ( 700mmHg) or lower. This vacuuming level is more stringent than R22 system so as to ensure no incompressible gas and moisture in the system.
- e) When charging R407C, ensure that only liquid is being withdrawn from the cylinder or can. This is to ensure that only the original composition of R407C is being delivered into the system. The liquid composition can be different from the vapor composition.



- f) Normally, the R407C cylinder or can is being equipped with a dip pipe for liquid withdrawal. However, if the dip pipe is not available, invert the cylinder or can so as to withdraw liquid from the valve at the bottom.



- g) When servicing leak, the top up method, commonly practiced for R22 system, is not recommended for R407C system. Unlike R22 where the refrigerant is of a single component, the composition of R407C, which is made up of three different components, may have changed during the leak. Consequently, a top up may not ensure that the R407C in the system is of original composition. This composition shift may adversely affect the system performance. It is recommended that the system should be evacuated thoroughly before recharging with R407C.



## Special Precautions When Dealing With Refrigerant R410A Unit

### 1) What is new refrigerant R410A?

R410A is a new HFC refrigerant which does not damage the ozone layer. The working pressure of this new refrigerant is 1.6 times higher than conventional refrigerant (R22), thus proper installation / servicing is essential.

### 2) Components

Mixture weight composition R32(50%) and R125(50%)

### 3) Characteristic

- R410A liquid and vapor components have different compositions when the fluid evaporates or condenses. Hence, when leak occurs and only vapor leaks out, the composition of the refrigerant mixture left in the system will change and subsequently affect the system performance. **DO NOT** add new refrigerant to leaked system. It is recommended that the system should be evacuated thoroughly before recharging with R410A.
- When refrigerant R410A is used, the composition will differ depending on whether it is in gaseous or liquid phase. Hence when charging R410A, ensure that only liquid is being withdrawn from the cylinder or can. This is to make certain that only original composition of R410A is being charged into the system.
- POE oil is used as lubricant for R410A compressor, which is different from the mineral oil used for R22 compressor. Extra precaution must be taken not to expose the R410A system too long to moist air.

### 4) Check list before installation/servicing

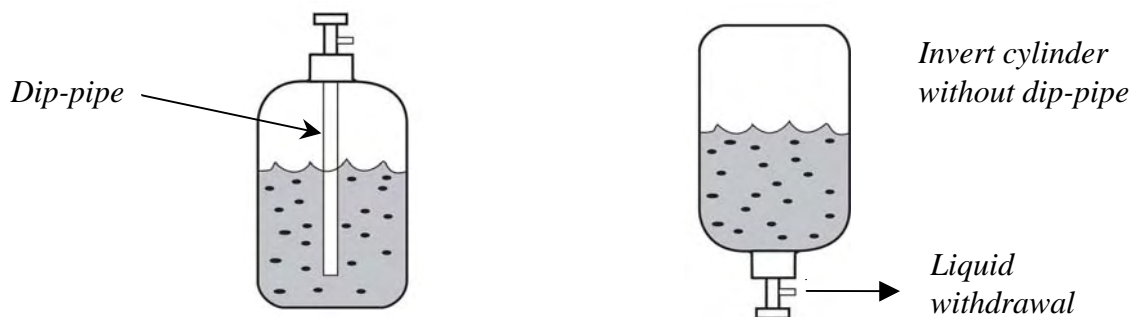
- Tubing  
Refrigerant R410A is more easily affected by dust or moisture compared with R22, make sure to temporarily cover the ends of the tubing prior to installation
- Compressor oil  
No additional charge of compressor oil is permitted.
- Refrigerant  
No other refrigerant other than R410A
- Tools (size of service port is different from R22 system)  
Tools specifically for R410A only (must not be used for R22 or other refrigerant)
  - i) Manifold gauge and charging hose
  - ii) Gas leak detector
  - iii) Refrigerant cylinder/charging cylinder
  - iv) Vacuum pump c/w adapter
  - v) Flare tools
  - vi) Refrigerant recovery machine

### 5) Handling and installation guidelines

Like R22 system, the handling and installation of R410A system are closely similar. All precautionary measures; such as ensuring no moisture, no dirt or chips in the system, clean brazing using nitrogen, and thorough leak check and vacuuming are equally important requirements. However, due to its hygroscopic POE oil, additional precautions must be taken to ensure optimum and trouble free system operation.

- a) During installation or servicing, avoid prolong exposure of the internal part of the refrigerant system to moist air. Residual POE oil in the piping and components can absorb moisture from the air.
- b) Ensure that the compressor is not exposed to open air for more than the recommended time specified by its manufacturer (typically less than 10 minutes). Remove the seal plugs only when the compressor is about to be brazed.
- c) The system should be thoroughly vacuumed to 1.0 Pa ( 700mmHg) or lower. This vacuuming level is more stringent than R22 system so as to ensure no incompressible gas and moisture in the system.

- d) When charging R410A, ensure that only liquid is being withdrawn from the cylinder or can. This is to ensure that only the original composition of R410A is being delivered into the system. The liquid composition can be different from the vapor composition.



- f) Normally, the R410A cylinder or can is being equipped with a dip pipe for liquid withdrawal. However, if the dip pipe is not available, invert the cylinder or can so as to withdraw liquid from the valve at the bottom.

**Electrical Connections**

Wiring regulations on wire diameters differ from country to country. Please refer to your LOCAL ELECTRICAL CODES for field wiring rules. Be sure that installation comply with such rules and regulations.

**General Precautions**

Ensure that the rated voltage of the unit corresponds to the name plate before carrying out proper wiring according to the wiring diagram.

Provide a power outlet to be used exclusively for each unit. A power supply disconnect and a circuit breaker for over current protection should be provided in the exclusive line.

All wiring must be firmly connected.

All wiring must not touch the refrigerant piping, compressor or any moving parts of fan motors.

**Operational Check**

After all wiring is completed and the system is charged with refrigerant, make sure that unit is operating properly. Check that :

- Condenser fan is running, with warm air blowing off the condensing unit.
- Evaporator blowers are running and discharging cool air.
- The micro-computer system incorporate a 3-minute delay in the circuitry. Thus, it requires about 3 minutes upon cut off before the outdoor condensing unit can start up.
- To check if there is any miswiring, turn on one unit at a time.
- After running for 10-15 minutes. Check if the suction (low side) pressure is within normal operating range.

# Engineering and Physical Data

## MMSD

### General Data - Cooling Only (R22)

MODEL		OUTDOOR UNIT		MMSD1010A	MMSD1515A
		INDOOR UNIT		2 x MWM010G	2 x MWM015G
NOMINAL CAPACITY			Btu/h	2 x 9500	2 x 12700
			W	2 x 2780	2 x 3720
NOMINAL TOTAL INPUT POWER	ONE UNIT RUNNING	W	1018	1459	
	TWO UNITS RUNNING	W	1864	2756	
NOMINAL RUNNING CURRENT	ONE UNIT RUNNING	A	4.47	6.43	
	TWO UNITS RUNNING	A	8.30	12.10	
EER		W/W	2.99	2.70	
POWER SOURCE		V/Ph/Hz	220 ~ 240 / 1 / 50		
REFRIGERANT TYPE / CONTROL			R22 / CAPILLARY TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)	
		OPERATION		WIRELESS HANDSET	
	AIR FLOW	HIGH	l/s / cfm	141.60 / 300	162.82 / 345
		MEDIUM	l/s / cfm	117.99 / 250	134.51 / 285
		LOW	l/s / cfm	94.39 / 200	103.83 / 220
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	39 / 34 / 28	42 / 36 / 29
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2	
		WIDTH	mm/in	899 / 35.4	
		DEPTH	mm/in	198 / 7.8	
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3	
		WIDTH	mm/in	957 / 37.7	
		DEPTH	mm/in	270 / 10.6	
	UNIT WEIGHT		kg/lb	12 / 26.46	
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.63	
OUTDOOR UNIT	AIR FLOW		l/s / cfm	660.8 / 1400	
	SOUND PRESSURE LEVEL		dBA	56	
	UNIT DIMENSION	HEIGHT	mm/in	646 / 25.4	
		WIDTH	mm/in	840 / 33.1	
		DEPTH	mm/in	330 / 13	
	PACKING DIMENSION	HEIGHT	mm/in	710 / 28.0	
		WIDTH	mm/in	982 / 38.7	
		DEPTH	mm/in	461 / 18.1	
	UNIT WEIGHT		kg/lb	62 / 136.69	64 / 141.1
	PIPE CONNECTION	TYPE		FLARE VALVE	
SIZE		LIQUID	mm/in	2 x 6.35 / 2 x 1/4	
		GAS	mm/in	2 x 9.52 / 2 x 3/8	2 x 12.7 / 2 x 1/2
REFRIGERANT CHARGE			kg/lb	2 x 0.725 / 2 x 1.6	2 x 1.0 / 2 x 2.2

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

## General Data - Cooling Only (R22)

MODEL		OUTDOOR UNIT		MMSD1015A		
		INDOOR UNIT		MWM010G	MWM015G	
NOMINAL CAPACITY			Btu/h	9500	12700	
			W	2780	3720	
NOMINAL TOTAL INPUT POWER	ONE UNIT RUNNING	W	1018	1459		
	TWO UNITS RUNNING	W	2310			
NOMINAL RUNNING CURRENT	ONE UNIT RUNNING	A	4.47	6.43		
	TWO UNITS RUNNING	A	10.20			
EER			W/W	2.82		
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50		
REFRIGERANT TYPE / CONTROL			R22 / CAPILLARY TUBE			
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)		
		OPERATION		WIRELESS HANDSET		
	AIR FLOW	HIGH	l/s / cfm	141.60 / 300	162.82 / 345	
		MEDIUM	l/s / cfm	117.99 / 250	134.51 / 285	
		LOW	l/s / cfm	94.39 / 200	103.83 / 220	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	39 / 34 /28	42 / 36 / 29	
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2		
		WIDTH	mm/in	899 / 35.4		
		DEPTH	mm/in	198 / 7.8		
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3		
		WIDTH	mm/in	957 / 37.7		
		DEPTH	mm/in	270 / 10.6		
	UNIT WEIGHT		kg/lb	12 / 26.46		
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.63		
OUTDOOR UNIT	AIR FLOW		l/s / cfm	660.8 / 1400		
	SOUND PRESSURE LEVEL		dBA	56		
	UNIT DIMENSION	HEIGHT	mm/in	646 / 25.4		
		WIDTH	mm/in	840 / 33.1		
		DEPTH	mm/in	330 / 13		
	PACKING DIMENSION	HEIGHT	mm/in	710 / 28.0		
		WIDTH	mm/in	982 / 38.7		
		DEPTH	mm/in	461 / 18.1		
	UNIT WEIGHT		kg/lb	63 / 138.89		
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	6.35 / 1/4	
			GAS	mm/in	9.52 / 3/8	12.7 / 1/2
	REFRIGERANT CHARGE			kg/lb	2 x 0.85 / 2 x 1.87	

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

## General Data - Cooling Only (R22)

MODEL		OUTDOOR UNIT		MMSD1020A		
		INDOOR UNIT		MWM010G	MWM020G	
NOMINAL CAPACITY			Btu/h	9500	18000	
			W	2780	5280	
NOMINAL TOTAL INPUT POWER	ONE UNIT RUNNING	W	1070	2076		
	TWO UNITS RUNNING	W	3059			
NOMINAL RUNNING CURRENT	ONE UNIT RUNNING	A	4.73	10.20		
	TWO UNITS RUNNING	A	14.40			
EER			W/W	2.63		
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50		
REFRIGERANT TYPE / CONTROL			R22 / CAPILLARY TUBE			
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)		
		OPERATION		WIRELESS HANDSET		
	AIR FLOW	HIGH	l/s / cfm	141.60 / 300	231.38 / 490	
		MEDIUM	l/s / cfm	117.99 / 250	193.52 / 410	
		LOW	l/s / cfm	94.39 / 200	160.48 / 340	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	39 / 34 / 28	44 / 40 / 35	
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2	306 / 12.0	
		WIDTH	mm/in	899 / 35.4	1062 / 41.8	
		DEPTH	mm/in	198 / 7.8	222 / 8.7	
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3	378 / 14.9	
		WIDTH	mm/in	957 / 37.7	1130 / 44.5	
		DEPTH	mm/in	270 / 10.6	292 / 11.5	
	UNIT WEIGHT		kg/lb	12 / 26.46	16 / 35.27	
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.63	20 / 0.79	
OUTDOOR UNIT	AIR FLOW		l/s / cfm	660.8 / 1400		
	SOUND PRESSURE LEVEL		dBA	59		
	UNIT DIMENSION	HEIGHT	mm/in	631.7 / 24.9		
		WIDTH	mm/in	960 / 37.8		
		DEPTH	mm/in	437 / 17.2		
	PACKING DIMENSION	HEIGHT	mm/in	824 / 32.4		
		WIDTH	mm/in	1194 / 47.0		
		DEPTH	mm/in	611 / 24.1		
	UNIT WEIGHT		kg/lb	95 / 209.44		
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	6.35 / 1/4	
			GAS	mm/in	9.52 / 3/8	15.88 / 5/8
	REFRIGERANT CHARGE			kg/lb	0.73 / 1.60	1.83 / 4.03

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.



## General Data - Cooling Only (R22)

MODEL		OUTDOOR UNIT		MMSD1520A		
		INDOOR UNIT		MWM015G	MWM020G	
NOMINAL CAPACITY			Btu/h	12700	18000	
			W	3720	5280	
NOMINAL TOTAL INPUT POWER	ONE UNIT RUNNING	W	1511	2076		
	TWO UNITS RUNNING	W	3364			
NOMINAL RUNNING CURRENT	ONE UNIT RUNNING	A	6.69	10.20		
	TWO UNITS RUNNING	A	16.20			
EER		W/W	2.68			
POWER SOURCE		V/Ph/Hz	220 ~ 240 / 1 / 50			
REFRIGERANT TYPE / CONTROL			R22 / CAPILLARY TUBE			
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)		
		OPERATION		WIRELESS HANDSET		
	AIR FLOW	HIGH	l/s / cfm	162.82 / 345	231.38 / 490	
		MEDIUM	l/s / cfm	134.51 / 285	193.52 / 410	
		LOW	l/s / cfm	103.83 / 220	160.48 / 340	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	42 / 36 / 29	44 / 40 / 35	
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2	306 / 12.0	
		WIDTH	mm/in	899 / 35.4	1062 / 41.8	
		DEPTH	mm/in	198 / 7.8	222 / 8.7	
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3	378 / 14.9	
		WIDTH	mm/in	957 / 37.7	1130 / 44.5	
		DEPTH	mm/in	270 / 10.6	292 / 11.5	
	UNIT WEIGHT		kg/lb	12 / 26.46	16 / 35.27	
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.63	20 / 0.79	
OUTDOOR UNIT	AIR FLOW		l/s / cfm	1132.8 / 2400		
	SOUND PRESSURE LEVEL		dBA	59		
	UNIT DIMENSION	HEIGHT	mm/in	631.7 / 24.9		
		WIDTH	mm/in	960 / 37.8		
		DEPTH	mm/in	437 / 17.2		
	PACKING DIMENSION	HEIGHT	mm/in	824 / 32.4		
		WIDTH	mm/in	1194 / 47.0		
		DEPTH	mm/in	611 / 24.1		
	UNIT WEIGHT		kg/lb	99 / 218.26		
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	6.35 / 1/4	
			GAS	mm/in	12.7 / 1/2	15.88 / 5/8
	REFRIGERANT CHARGE			kg/lb	1.00 / 2.21	1.83 / 4.03

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.



## General Data - Cooling Only (R22)

MODEL		OUTDOOR UNIT		MMSD2020A		
		INDOOR UNIT		2 x MWM020G		
NOMINAL CAPACITY			Btu/h	2 x 18000		
			W	2 x 5280		
NOMINAL TOTAL INPUT POWER	ONE UNIT RUNNING		W	2082		
	TWO UNITS RUNNING		W	4580		
NOMINAL RUNNING CURRENT	ONE UNIT RUNNING		A	10.2		
	TWO UNITS RUNNING		A	21.9		
EER			W/W	2.3		
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50		
REFRIGERANT TYPE / CONTROL			R22 / CAPILLARY TUBE			
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)		
		OPERATION		WIRELESS HANDSET		
	AIR FLOW	HIGH	l/s / cfm	231.38 / 490		
		MEDIUM	l/s / cfm	193.52 / 410		
		LOW	l/s / cfm	160.48 / 340		
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	44 / 40 / 35		
	UNIT DIMENSION	HEIGHT	mm/in	306 / 12.0		
		WIDTH	mm/in	1062 / 41.8		
		DEPTH	mm/in	222 / 8.7		
	PACKING DIMENSION	HEIGHT	mm/in	378 / 14.9		
		WIDTH	mm/in	1130 / 44.5		
		DEPTH	mm/in	292 / 11.5		
	UNIT WEIGHT		kg/lb	16 / 35.27		
	CONDENSATE DRAIN SIZE		mm/in	20 / 0.79		
OUTDOOR UNIT	AIR FLOW		l/s / cfm	1132.8 / 2400		
	SOUND PRESSURE LEVEL		dBA	61		
	UNIT DIMENSION	HEIGHT	mm/in	631.7 / 24.9		
		WIDTH	mm/in	960 / 37.8		
		DEPTH	mm/in	437 / 17.2		
	PACKING DIMENSION	HEIGHT	mm/in	824 / 32.4		
		WIDTH	mm/in	1194 / 47.0		
		DEPTH	mm/in	611 / 24.1		
	UNIT WEIGHT		kg/lb	106 / 233.69		
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	2 x 6.35 / 2 x 1/4	
			GAS	mm/in	2 x 15.88 / 2 x 5/8	
REFRIGERANT CHARGE			kg/lb	2 x 1.83 / 2 x 4.03		

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

## General Data - Cooling Only (R22)

MODEL		OUTDOOR UNIT		MMSD1010A	MMSD1515A	
		INDOOR UNIT		2 x MCC010C	2 x MCC015C	
NOMINAL CAPACITY			Btu/h	2 x 9500	2 x 12700	
			W	2 x 2780	2 x 3720	
NOMINAL TOTAL INPUT POWER	ONE UNIT RUNNING	W	1059	1525		
	TWO UNITS RUNNING	W	1946	2888		
NOMINAL RUNNING CURRENT	ONE UNIT RUNNING	A	4.7	6.7		
	TWO UNITS RUNNING	A	8.7	12.7		
EER		W/W	2.86	2.58		
POWER SOURCE		V/Ph/Hz	220 ~ 240 / 1 / 50			
REFRIGERANT TYPE / CONTROL			R22 / CAPILLARY TUBE			
INDOOR UNIT	CONTROL	AIR DISCHARGE		DUCTED		
		OPERATION		SLM WIRED HANDSET		
	AIR FLOW	HIGH	l/s / cfm	142 / 300	241 / 510	
		MEDIUM	l/s / cfm	123 / 260	208 / 440	
		LOW	l/s / cfm	104 / 220	170 / 360	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	49 / 39 / 29 (0.2 / 0.2 / 0.1)	49 / 39 / 20 (0.2 / 0.2 / 0.1)	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	33 / 30 / 26	37 / 34 / 29	
	UNIT DIMENSION	HEIGHT	mm/in	261 / 10.3	261 / 10.3	
		WIDTH	mm/in	765 / 30.1	905 / 35.6	
		DEPTH	mm/in	411 / 16.2	411 / 16.2	
	PACKING DIMENSION	HEIGHT	mm/in	376 / 14.8	376 / 14.8	
		WIDTH	mm/in	951 / 37.4	1091 / 43.0	
		DEPTH	mm/in	535 / 21.3	541 / 21.3	
	UNIT WEIGHT		kg/lb	17 / 38	21 / 46	
	CONDENSATE DRAIN SIZE		mm/in	19.1 / ¾		
OUTDOOR UNIT	AIR FLOW		l/s / cfm	660.8 / 1400		
	SOUND PRESSURE LEVEL		dBA	56		
	UNIT DIMENSION	HEIGHT	mm/in	646 / 25.4		
		WIDTH	mm/in	840 / 33.1		
		DEPTH	mm/in	330 / 13.0		
	PACKING DIMENSION	HEIGHT	mm/in	710 / 28.0		
		WIDTH	mm/in	982 / 38.7		
		DEPTH	mm/in	461 / 18.1		
	UNIT WEIGHT		kg/lb	62 / 136.69	64 / 141.1	
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	2 x 6.35 / 2 x ¼	
			GAS	mm/in	2 x 9.52 / 2 x ¾	2 X 12.7 / 2 X ½
	REFRIGERANT CHARGE			kg/lb	2 x 0.825 / 2 x 1.82	2 X 0.850 / 2 X 1.87

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.5m BELOW UNIT.  
(TESTED WITH 2M LENGTH DUCT AT AIR DISCHARGE OUTLET AND 1M DUCT LENGTH AT AIR RETURN INLET.)

## General Data - Cooling Only (R22)

MODEL		OUTDOOR UNIT		MMSD1015A		
		INDOOR UNIT		MCC010C	MCC015C	
NOMINAL CAPACITY			Btu/h	9500	12700	
			W	2780	3270	
NOMINAL TOTAL INPUT POWER	ONE UNIT RUNNING	W	1059	1525		
	TWO UNITS RUNNING	W	2417			
NOMINAL RUNNING CURRENT	ONE UNIT RUNNING	A	4.7	6.7		
	TWO UNITS RUNNING	A	10.7			
EER			W/W	2.69		
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50		
REFRIGERANT TYPE / CONTROL			R22 / CAPILLARY TUBE			
INDOOR UNIT	CONTROL	AIR DISCHARGE		DUCTED		
		OPERATION		SLM WIRED HANDSET		
	AIR FLOW	HIGH	l/s / cfm	142 / 300	241 / 510	
		MEDIUM	l/s / cfm	123 / 260	208 / 440	
		LOW	l/s / cfm	104 / 220	170 / 360	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	49 / 39 / 29 (0.2 / 0.2 / 0.1)	49 / 39 / 20 (0.2 / 0.2 / 0.1)	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	33 / 30 / 26	37 / 34 / 29	
	UNIT DIMENSION	HEIGHT	mm/in	261 / 10.3	261 / 10.3	
		WIDTH	mm/in	765 / 30.1	905 / 35.6	
		DEPTH	mm/in	411 / 16.2	411 / 16.2	
	PACKING DIMENSION	HEIGHT	mm/in	376 / 14.8	376 / 14.8	
		WIDTH	mm/in	951 / 37.4	1091 / 43.0	
		DEPTH	mm/in	535 / 21.3	541 / 21.3	
	UNIT WEIGHT		kg/lb	17 / 38	21 / 46	
	CONDENSATE DRAIN SIZE		mm/in	19.1 / ¾		
OUTDOOR UNIT	AIR FLOW		l/s / cfm	660.8 / 400		
	SOUND PRESSURE LEVEL		dBA	56		
	UNIT DIMENSION	HEIGHT	mm/in	646 / 25.4		
		WIDTH	mm/in	840 / 33.1		
		DEPTH	mm/in	330 / 13.0		
	PACKING DIMENSION	HEIGHT	mm/in	710 / 28.0		
		WIDTH	mm/in	982 / 38.7		
		DEPTH	mm/in	461 / 18.1		
	UNIT WEIGHT		kg/lb	63 / 138.89		
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	2 x 6.35 / 2 x ¼	
			GAS	mm/in	9.52 / ⅜	12.7 / ½
	REFRIGERANT CHARGE			kg/lb	1.675 / 3.69	

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.5m BELOW UNIT.  
(TESTED WITH 2M LENGTH DUCT AT AIR DISCHARGE OUTLET AND 1M DUCT LENGTH AT AIR RETURN INLET.)

## General Data - Cooling Only (R22)

MODEL		OUTDOOR UNIT		MMSD1020A		
		INDOOR UNIT		MCC010C	MCC020C	
NOMINAL CAPACITY			Btu/h	9500	18000	
			W	2780	5280	
NOMINAL TOTAL INPUT POWER	ONE UNIT RUNNING	W	1111	2167		
	TWO UNITS RUNNING	W	3191			
NOMINAL RUNNING CURRENT	ONE UNIT RUNNING	A	4.9	10.6		
	TWO UNITS RUNNING	A	15.0			
EER		W/W	2.53			
POWER SOURCE		V/Ph/Hz	220 ~ 240 / 1 / 50			
REFRIGERANT TYPE / CONTROL			R22 / CAPILLARY TUBE			
INDOOR UNIT	CONTROL	AIR DISCHARGE		DUCTED		
		OPERATION		SLM WIRED HANDSET		
	AIR FLOW	HIGH	l/s / cfm	142 / 300	241 / 510	
		MEDIUM	l/s / cfm	123 / 260	208 / 440	
		LOW	l/s / cfm	104 / 220	170 / 360	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	49 / 39 / 29 (0.2 / 0.2 / 0.1)	49 / 39 / 20 (0.2 / 0.2 / 0.1)	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	33 / 30 / 26	37 / 34 / 29	
	UNIT DIMENSION	HEIGHT	mm/in	261 / 10.3	261 / 10.3	
		WIDTH	mm/in	765 / 30.1	1065 / 41.9	
		DEPTH	mm/in	411 / 16.2	411 / 16.2	
	PACKING DIMENSION	HEIGHT	mm/in	376 / 14.8	376 / 14.8	
		WIDTH	mm/in	951 / 37.4	1251 / 49.3	
		DEPTH	mm/in	535 / 21.3	541 / 21.3	
	UNIT WEIGHT		kg/lb	17 / 38	22 / 49	
	CONDENSATE DRAIN SIZE		mm/in	19.1 / ¾		
OUTDOOR UNIT	AIR FLOW		l/s / cfm	1132.7 / 2400		
	SOUND PRESSURE LEVEL		dBA	56		
	UNIT DIMENSION	HEIGHT	mm/in	646 / 25.4		
		WIDTH	mm/in	840 / 33.1		
		DEPTH	mm/in	330 / 13.0		
	PACKING DIMENSION	HEIGHT	mm/in	710 / 28.0		
		WIDTH	mm/in	982 / 38.7		
		DEPTH	mm/in	461 / 18.1		
	UNIT WEIGHT		kg/lb	63 / 138.89		
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	2 x 6.35 / 2 x ¼	
			GAS	mm/in	9.52 / ⅜	12.7 / ½
	REFRIGERANT CHARGE			kg/lb	1.675 / 3.69	

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.5m BELOW UNIT.  
(TESTED WITH 2M LENGTH DUCT AT AIR DISCHARGE OUTLET AND 1M DUCT LENGTH AT AIR RETURN INLET.)

## General Data - Cooling Only (R22)

MODEL		OUTDOOR UNIT		MMSD1520A		
		INDOOR UNIT		MCC015C	MCC020C	
NOMINAL CAPACITY			Btu/h	12700	18000	
			W	3720	5280	
NOMINAL TOTAL INPUT POWER	ONE UNIT RUNNING	W	1577	2167		
	TWO UNITS RUNNING	W	3521			
NOMINAL RUNNING CURRENT	ONE UNIT RUNNING	A	7.0	10.6		
	TWO UNITS RUNNING	A	16.9			
EER		W/W	2.56			
POWER SOURCE		V/Ph/Hz	220 ~ 240 / 1 / 50			
REFRIGERANT TYPE / CONTROL			R22 / CAPILLARY TUBE			
INDOOR UNIT	CONTROL	AIR DISCHARGE		DUCTED		
		OPERATION		SLM WIRED HANDSET		
	AIR FLOW	HIGH	l/s / cfm	241 / 510	241 / 510	
		MEDIUM	l/s / cfm	208 / 440	208 / 440	
		LOW	l/s / cfm	170 / 360	170 / 360	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	49 / 39 / 20 (0.2 / 0.2 / 0.1)	49 / 39 / 20 (0.2 / 0.2 / 0.1)	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	37 / 34 / 29	37 / 34 / 29	
	UNIT DIMENSION	HEIGHT	mm/in	261 / 10.3	261 / 10.3	
		WIDTH	mm/in	905 / 35.6	1065 / 41.9	
		DEPTH	mm/in	411 / 16.2	411 / 16.2	
	PACKING DIMENSION	HEIGHT	mm/in	376 / 14.8	376 / 14.8	
		WIDTH	mm/in	1091 / 43.0	1251 / 49.3	
		DEPTH	mm/in	541 / 21.3	541 / 21.3	
	UNIT WEIGHT		kg/lb	21 / 46	22 / 49	
	CONDENSATE DRAIN SIZE		mm/in	19.1 / ¾		
OUTDOOR UNIT	AIR FLOW		l/s / cfm	1132.7 / 2400		
	SOUND PRESSURE LEVEL		dBA	56		
	UNIT DIMENSION	HEIGHT	mm/in	646 / 25.4		
		WIDTH	mm/in	840 / 33.1		
		DEPTH	mm/in	330 / 13.0		
	PACKING DIMENSION	HEIGHT	mm/in	710 / 28.0		
		WIDTH	mm/in	982 / 38.7		
		DEPTH	mm/in	461 / 18.1		
	UNIT WEIGHT		kg/lb	63 / 138.89		
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	2 x 6.35 / 2 x ¼	
			GAS	mm/in	9.52 / ⅜	12.7 / ½
	REFRIGERANT CHARGE			kg/lb	1.675 / 3.69	

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.5m BELOW UNIT.  
(TESTED WITH 2M LENGTH DUCT AT AIR DISCHARGE OUTLET AND 1M DUCT LENGTH AT AIR RETURN INLET.)

## General Data - Cooling Only (R22)

MODEL		OUTDOOR UNIT		MMSD2020A	
		INDOOR UNIT		2 x MCC020C	
NOMINAL CAPACITY			Btu/h	2 x 18000	
			W	2 x 5280	
NOMINAL TOTAL INPUT POWER	ONE UNIT RUNNING	W	2173		
	TWO UNITS RUNNING	W	4762		
NOMINAL RUNNING CURRENT	ONE UNIT RUNNING	A	10.6		
	TWO UNITS RUNNING	A	22.7		
EER			W/W	2.22	
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50	
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE	
INDOOR UNIT	CONTROL	AIR DISCHARGE		DUCTED	
		OPERATION		SLM WIRED HANDSET	
	AIR FLOW	HIGH	l/s / cfm	241 / 510	
		MEDIUM	l/s / cfm	208 / 440	
		LOW	l/s / cfm	170 / 360	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	49 / 39 / 20 (0.2 / 0.2 / 0.1)	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	37 / 34 / 29	
	UNIT DIMENSION	HEIGHT	mm/in	261 / 10.3	
		WIDTH	mm/in	1065 / 41.9	
		DEPTH	mm/in	411 / 16.2	
	PACKING DIMENSION	HEIGHT	mm/in	376 / 14.8	
		WIDTH	mm/in	1251 / 49.3	
		DEPTH	mm/in	541 / 21.3	
	UNIT WEIGHT		kg/lb	22 / 49	
	CONDENSATE DRAIN SIZE		mm/in	19.1 / ¾	
OUTDOOR UNIT	AIR FLOW		l/s / cfm	1132.7 / 2400	
	SOUND PRESSURE LEVEL		dBA	61	
	UNIT DIMENSION	HEIGHT	mm/in	632 / 24.9	
		WIDTH	mm/in	690 / 37.8	
		DEPTH	mm/in	437 / 17.2	
	PACKING DIMENSION	HEIGHT	mm/in	824 / 32.4	
		WIDTH	mm/in	1194 / 47.0	
		DEPTH	mm/in	611 / 24.1	
	UNIT WEIGHT		kg/lb	106 / 234	
	PIPE CONNECTION	TYPE		FLARE VALVE	
		SIZE	LIQUID	mm/in	2 X 2.4 / 2 X ¼
			GAS	mm/in	2 X 15.9 / 2 X ⅝
REFRIGERANT CHARGE			kg/lb	2 X 1.83 / 2 X 4.03	

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.5m BELOW UNIT.  
(TESTED WITH 2M LENGTH DUCT AT AIR DISCHARGE OUTLET AND 1M DUCT LENGTH AT AIR RETURN INLET.)

## General Data - Cooling Only (R22)

MODEL		OUTDOOR UNIT		MMSD1010A	MMSD1515A	
		INDOOR UNIT		2 x MCK010C	2 x MCK015C	
NOMINAL CAPACITY			Btu/h	2 x 9500	2 x 12700	
			W	2 x 2780	2 x 3720	
NOMINAL TOTAL INPUT POWER	ONE UNIT RUNNING		W	1047	1492	
	TWO UNITS RUNNING		W	1922	2822	
NOMINAL RUNNING CURRENT	ONE UNIT RUNNING		A	4.6	6.6	
	TWO UNITS RUNNING		A	8.6	12.4	
EER			W/W	2.90	2.64	
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50		
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)		
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL		
	AIR FLOW	HIGH	l/s / cfm	194 / 410		
		MEDIUM	l/s / cfm	184 / 390		
		LOW	l/s / cfm	175 / 370		
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	44 / 43 / 42	44 / 42 / 41	
	UNIT DIMENSION	HEIGHT	mm/in	250 (295) / 9.8 (11.6)		
		WIDTH	mm/in	570 (640) / 22.4 (25.2)		
		DEPTH	mm/in	570 (640) / 22.4 (25.2)		
	PACKING DIMENSION	HEIGHT	mm/in	317 (127) / 12.5 (5).0		
		WIDTH	mm/in	630 (700) / 24.8 (27.6)		
		DEPTH	mm/in	630 (700) / 24.8 (27.6)		
	UNIT WEIGHT		kg/lb	22 + 2 / 49 + 4	23 + 2 / 51 + 4	
	CONDENSATE DRAIN SIZE		mm/in	19.1 / ¾		
OUTDOOR UNIT	AIR FLOW		l/s / cfm	660.8 / 1400		
	SOUND PRESSURE LEVEL		dBA	56		
	UNIT DIMENSION	HEIGHT	mm/in	646 / 25.4		
		WIDTH	mm/in	840 / 33.1		
		DEPTH	mm/in	330 / 13.0		
	PACKING DIMENSION	HEIGHT	mm/in	710 / 28.0		
		WIDTH	mm/in	982 / 38.7		
		DEPTH	mm/in	461 / 18.1		
	UNIT WEIGHT		kg/lb	62 / 136.69	64 / 141.1	
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	2 x 6.35 / 2 x ¼	
			GAS	mm/in	2 x 9.52 / 2 x ¾	2 X 12.7 / 2 X ½
REFRIGERANT CHARGE			kg/lb	2 x 0.825 / 2 x 1.82	2 X 0.850 / 2 X 1.87	

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FACIA.



## General Data - Cooling Only (R22)

MODEL		OUTDOOR UNIT		MMSD1015A		
		INDOOR UNIT		MCK010C	MCK015C	
NOMINAL CAPACITY			Btu/h	9500	12700	
			W	2780	3270	
NOMINAL TOTAL INPUT POWER	ONE UNIT RUNNING	W	1047	1492		
	TWO UNITS RUNNING	W	2372			
NOMINAL RUNNING CURRENT	ONE UNIT RUNNING	A	4.6	6.6		
	TWO UNITS RUNNING	A	10.5			
EER		W/W	2.74			
POWER SOURCE		V/Ph/Hz	220 ~ 240 / 1 / 50			
REFRIGERANT TYPE / CONTROL			R22 / CAPILLARY TUBE			
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)		
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL		
	AIR FLOW	HIGH	l/s / cfm	194 / 410		
		MEDIUM	l/s / cfm	184 / 390		
		LOW	l/s / cfm	175 / 370		
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	44 / 43 / 42	44 / 42 / 41	
	UNIT DIMENSION	HEIGHT	mm/in	250 (295) / 9.8 (11.6)		
		WIDTH	mm/in	570 (640) / 22.4 (25.2)		
		DEPTH	mm/in	570 (640) / 22.4 (25.2)		
	PACKING DIMENSION	HEIGHT	mm/in	317 (127) / 12.5 (5).0		
		WIDTH	mm/in	630 (700) / 24.8 (27.6)		
		DEPTH	mm/in	630 (700) / 24.8 (27.6)		
	UNIT WEIGHT		kg/lb	22 + 2 / 49 + 4	23 + 2 / 51 + 4	
	CONDENSATE DRAIN SIZE		mm/in	19.1 / ¾		
OUTDOOR UNIT	AIR FLOW		l/s / cfm	660.8 / 400		
	SOUND PRESSURE LEVEL		dBA	56		
	UNIT DIMENSION	HEIGHT	mm/in	646 / 25.4		
		WIDTH	mm/in	840 / 33.1		
		DEPTH	mm/in	330 / 13.0		
	PACKING DIMENSION	HEIGHT	mm/in	710 / 28.0		
		WIDTH	mm/in	982 / 38.7		
		DEPTH	mm/in	461 / 18.1		
	UNIT WEIGHT		kg/lb	63 / 138.89		
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	2 x 6.35 / 2 x ¼	
			GAS	mm/in	9.52 / ⅜	12.7 / ½
	REFRIGERANT CHARGE			kg/lb	1.675 / 3.69	

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FACIA.

## General Data - Cooling Only (R22)

MODEL		OUTDOOR UNIT		MMSD1020A		
		INDOOR UNIT		MCK010C	MCK020C	
NOMINAL CAPACITY		Btu/h	9500	18000		
		W	2780	5280		
NOMINAL TOTAL INPUT POWER	ONE UNIT RUNNING	W	1099	2100		
	TWO UNITS RUNNING	W	3112			
NOMINAL RUNNING CURRENT	ONE UNIT RUNNING	A	4.9	10.3		
	TWO UNITS RUNNING	A	14.6			
EER		W/W	2.59			
POWER SOURCE		V/Ph/Hz	220 ~ 240 / 1 / 50			
REFRIGERANT TYPE / CONTROL			R22 / CAPILLARY TUBE			
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)		
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL		
	AIR FLOW	HIGH	l/s / cfm	194 / 410	212 / 450	
		MEDIUM	l/s / cfm	184 / 390	203 / 430	
		LOW	l/s / cfm	175 / 370	194 / 410	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	44 / 43 / 42	47 / 46 / 44	
	UNIT DIMENSION	HEIGHT	mm/in	250 (295) / 9.8 (11.6)	250 (295) / 9.8 (11.6)	
		WIDTH	mm/in	570 (640) / 22.4 (25.2)	570 (640) / 22.4 (25.2)	
		DEPTH	mm/in	570 (640) / 22.4 (25.2)	570 (640) / 22.4 (25.2)	
	PACKING DIMENSION	HEIGHT	mm/in	317 (127) / 12.5 (5).0	317 (127) / 12.5 (5.0)	
		WIDTH	mm/in	630 (700) / 24.8 (27.6)	630 (700) / 24.8 (27.6)	
		DEPTH	mm/in	630 (700) / 24.8 (27.6)	630 (700) / 24.8 (27.6)	
	UNIT WEIGHT		kg/lb	22 + 2 / 49 + 4	23 + 2 / 51 + 4	
	CONDENSATE DRAIN SIZE		mm/in	19.1 / ¾		
OUTDOOR UNIT	AIR FLOW		l/s / cfm	1132.7 / 2400		
	SOUND PRESSURE LEVEL		dBA	56		
	UNIT DIMENSION	HEIGHT	mm/in	646 / 25.4		
		WIDTH	mm/in	840 / 33.1		
		DEPTH	mm/in	330 / 13.0		
	PACKING DIMENSION	HEIGHT	mm/in	710 / 28.0		
		WIDTH	mm/in	982 / 38.7		
		DEPTH	mm/in	461 / 18.1		
	UNIT WEIGHT		kg/lb	63 / 138.89		
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	2 x 6.35 / 2 x ¼	
			GAS	mm/in	9.52 / ¾	12.7 / ½
	REFRIGERANT CHARGE			kg/lb	1.675 / 3.69	

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FACIA.

## General Data - Cooling Only (R22)

MODEL		OUTDOOR UNIT		MMSD1520A		
		INDOOR UNIT		MCK015C	MCK020C	
NOMINAL CAPACITY			Btu/h	12700	18000	
			W	3720	5280	
NOMINAL TOTAL INPUT POWER	ONE UNIT RUNNING	W	1544	2100		
	TWO UNITS RUNNING	W	3421			
NOMINAL RUNNING CURRENT	ONE UNIT RUNNING	A	6.8	10.3		
	TWO UNITS RUNNING	A	16.4			
EER		W/W	2.63			
POWER SOURCE		V/Ph/Hz	220 ~ 240 / 1 / 50			
REFRIGERANT TYPE / CONTROL			R22 / CAPILLARY TUBE			
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)		
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL		
	AIR FLOW	HIGH	l/s / cfm	194 / 410	212 / 450	
		MEDIUM	l/s / cfm	184 / 390	203 / 430	
		LOW	l/s / cfm	175 / 370	194 / 410	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	44 / 43 / 42	47 / 46 / 44	
	UNIT DIMENSION	HEIGHT	mm/in	250 (295) / 9.8 (11.6)	250 (295) / 9.8 (11.6)	
		WIDTH	mm/in	570 (640) / 22.4 (25.2)	570 (640) / 22.4 (25.2)	
		DEPTH	mm/in	570 (640) / 22.4 (25.2)	570 (640) / 22.4 (25.2)	
	PACKING DIMENSION	HEIGHT	mm/in	317 (127) / 12.5 (5).0	317 (127) / 12.5 (5.0)	
		WIDTH	mm/in	630 (700) / 24.8 (27.6)	630 (700) / 24.8 (27.6)	
		DEPTH	mm/in	630 (700) / 24.8 (27.6)	630 (700) / 24.8 (27.6)	
	UNIT WEIGHT		kg/lb	22 + 2 / 49 + 4	23 + 2 / 51 + 4	
	CONDENSATE DRAIN SIZE		mm/in	19.1 / ¾		
OUTDOOR UNIT	AIR FLOW		l/s / cfm	1132.7 / 2400		
	SOUND PRESSURE LEVEL		dBA	56		
	UNIT DIMENSION	HEIGHT	mm/in	646 / 25.4		
		WIDTH	mm/in	840 / 33.1		
		DEPTH	mm/in	330 / 13.0		
	PACKING DIMENSION	HEIGHT	mm/in	710 / 28.0		
		WIDTH	mm/in	982 / 38.7		
		DEPTH	mm/in	461 / 18.1		
	UNIT WEIGHT		kg/lb	63 / 138.89		
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	2 x 6.35 / 2 x ¼	
			GAS	mm/in	9.52 / ¾	12.7 / ½
	REFRIGERANT CHARGE			kg/lb	1.675 / 3.69	

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FACIA.

## General Data - Cooling Only (R22)

MODEL		OUTDOOR UNIT		MMSD2020A		
		INDOOR UNIT		2 x MCK020C		
NOMINAL CAPACITY			Btu/h	2 x 18000		
			W	2 x 5280		
NOMINAL TOTAL INPUT POWER	ONE UNIT RUNNING	W	2106			
	TWO UNITS RUNNING	W	4628			
NOMINAL RUNNING CURRENT	ONE UNIT RUNNING	A	10.3			
	TWO UNITS RUNNING	A	22.1			
EER			W/W	2.28		
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50		
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)		
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL		
	AIR FLOW	HIGH	l/s / cfm	212 / 450		
		MEDIUM	l/s / cfm	203 / 430		
		LOW	l/s / cfm	194 / 410		
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	47 / 46 / 44		
	UNIT DIMENSION	HEIGHT	mm/in	250 (295) / 9.8 (11.6)		
		WIDTH	mm/in	570 (640) / 22.4 (25.2)		
		DEPTH	mm/in	570 (640) / 22.4 (25.2)		
	PACKING DIMENSION	HEIGHT	mm/in	317 (127) / 12.5 (5.0)		
		WIDTH	mm/in	630 (700) / 24.8 (27.6)		
		DEPTH	mm/in	630 (700) / 24.8 (27.6)		
	UNIT WEIGHT		kg/lb	23 + 2 / 51 + 4		
	CONDENSATE DRAIN SIZE		mm/in	19.1 / ¾		
OUTDOOR UNIT	AIR FLOW		l/s / cfm	1132.7 / 2400		
	SOUND PRESSURE LEVEL		dBA	61		
	UNIT DIMENSION	HEIGHT	mm/in	632 / 24.9		
		WIDTH	mm/in	690 / 37.8		
		DEPTH	mm/in	437 / 17.2		
	PACKING DIMENSION	HEIGHT	mm/in	824 / 32.4		
		WIDTH	mm/in	1194 / 47.0		
		DEPTH	mm/in	611 / 24.1		
	UNIT WEIGHT		kg/lb	106 / 234		
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	2 X 2.4 / 2 X ¼	
			GAS	mm/in	2 X 15.9 / 2 X ⅝	
	REFRIGERANT CHARGE		kg/lb	2 X 1.83 / 2 X 4.03		

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FACIA.

## General Data - Heatpump (R22)

MODEL		OUTDOOR UNIT		MMSD1010AR	MMSD1515AR
		INDOOR UNIT		2 x MWM010GR	2 x MWM015GR
NOMINAL COOLING CAPACITY			Btu/h	2 x 9100	2 x 11500
			W	2 x 2670	2 x 3370
NOMINAL HEATING CAPACITY			Btu/h	2 x 10700	2 x 12000
			W	2 x 3140	2 x 3520
NOMINAL TOTAL INPUT POWER (COOLING)	ONE UNIT RUNNING	W	997	1244	
	TWO UNITS RUNNING	W	1864	2480	
NOMINAL TOTAL INPUT POWER (HEATING)	ONE UNIT RUNNING	W	1157	1362	
	TWO UNITS RUNNING	W	2074	2458	
NOMINAL RUNNING CURRENT (COOLING)	ONE UNIT RUNNING	A	4.46	5.61	
	TWO UNITS RUNNING	A	8.32	11.22	
NOMINAL RUNNING CURRENT (HEATING)	ONE UNIT RUNNING	A	5.04	6.07	
	TWO UNITS RUNNING	A	9.14	11.08	
EER			W/W	2.86	
COP			W/W	3.02	
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50	
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE	
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)	
		OPERATION		WIRELESS HANDSET	
	AIR FLOW	HIGH	l/s / cfm	141.60 / 300	162.82 / 345
		MEDIUM	l/s / cfm	117.99 / 250	134.51 / 285
		LOW	l/s / cfm	94.39 / 200	103.83 / 220
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	39 / 34 / 28	42 / 36 / 29
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2	
		WIDTH	mm/in	899 / 35.4	
		DEPTH	mm/in	198 / 7.8	
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3	
		WIDTH	mm/in	957 / 37.7	
		DEPTH	mm/in	270 / 10.6	
	UNIT WEIGHT		kg/lb	12 / 26.46	
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.63	
OUTDOOR UNIT	AIR FLOW		l/s / cfm	660.8 / 1400	
	SOUND PRESSURE LEVEL		dBA	56	
	UNIT DIMENSION	HEIGHT	mm/in	646 / 25.4	
		WIDTH	mm/in	840 / 33.1	
		DEPTH	mm/in	330 / 13	
	PACKING DIMENSION	HEIGHT	mm/in	710 / 28.0	
		WIDTH	mm/in	982 / 38.7	
		DEPTH	mm/in	461 / 18.1	
	UNIT WEIGHT		kg/lb	63 / 138.89	65 / 143.3
	PIPE CONNECTION	TYPE		FLARE VALVE	
		SIZE	LIQUID	mm/in	2 x 6.35 / 2 x 1/4
GAS			mm/in	2 x 9.52 / 2 x 3/8	2 x 12.7 / 2 x 1/2
REFRIGERANT CHARGE			kg/lb	2 x 0.775 / 2 x 1.71	2 x 0.9 / 2 x 1.98

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

## General Data - Heatpump (R22)

MODEL		OUTDOOR UNIT		MMSD1015AR		
		INDOOR UNIT		MWM010GR	MWM015GR	
NOMINAL COOLING CAPACITY			Btu/h	9100	11500	
			W	2670	3370	
NOMINAL HEATING CAPACITY			Btu/h	10700	12000	
			W	3140	3520	
NOMINAL TOTAL INPUT POWER (COOLING)	ONE UNIT RUNNING	W	997	1244		
	TWO UNITS RUNNING	W	2172			
NOMINAL TOTAL INPUT POWER (HEATING)	ONE UNIT RUNNING	W	1157	1362		
	TWO UNITS RUNNING	W	2172			
NOMINAL RUNNING CURRENT (COOLING)	ONE UNIT RUNNING	A	4.46	5.61		
	TWO UNITS RUNNING	A	9.77			
NOMINAL RUNNING CURRENT (HEATING)	ONE UNIT RUNNING	A	5.04	6.07		
	TWO UNITS RUNNING	A	9.77			
EER			W/W	2.78		
COP			W/W	3.06		
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50		
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)		
		OPERATION		WIRELESS HANDSET		
	AIR FLOW	HIGH	l/s / cfm	141.60 / 300	162.82 / 345	
		MEDIUM	l/s / cfm	117.99 / 250	134.51 / 285	
		LOW	l/s / cfm	94.39 / 200	103.83 / 220	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	39 / 34 / 28	42 / 36 / 29	
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2		
		WIDTH	mm/in	899 / 35.4		
		DEPTH	mm/in	198 / 7.8		
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3		
		WIDTH	mm/in	957 / 37.7		
		DEPTH	mm/in	270 / 10.6		
	UNIT WEIGHT		kg/lb	12 / 26.46		
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.63		
OUTDOOR UNIT	AIR FLOW		l/s / cfm	660.8 / 1400		
	SOUND PRESSURE LEVEL		dBA	56		
	UNIT DIMENSION	HEIGHT	mm/in	646 / 25.4		
		WIDTH	mm/in	840 / 33.1		
		DEPTH	mm/in	330 / 13		
	PACKING DIMENSION	HEIGHT	mm/in	710 / 28.0		
		WIDTH	mm/in	982 / 38.7		
		DEPTH	mm/in	461 / 18.1		
	UNIT WEIGHT		kg/lb	64 / 141.1		
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	2 x 6.35 / 2 x 1/4	
			GAS	mm/in	9.52 / 3/8	12.7 / 1/2
REFRIGERANT CHARGE			kg/lb	0.775 / 1.71	0.9 / 1.98	

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.



## General Data - Heatpump (R22)

MODEL		OUTDOOR UNIT		MMSD1520AR		
		INDOOR UNIT		MWM015GR	MWM020GR	
NOMINAL COOLING CAPACITY			Btu/h	11000	18000	
			W	3220	5280	
NOMINAL HEATING CAPACITY			Btu/h	12000	19000	
			W	3520	5570	
NOMINAL TOTAL INPUT POWER (COOLING)	ONE UNIT RUNNING	W	1349	2189		
	TWO UNITS RUNNING	W	3460			
NOMINAL TOTAL INPUT POWER (HEATING)	ONE UNIT RUNNING	W	1382	2406		
	TWO UNITS RUNNING	W	3475			
NOMINAL RUNNING CURRENT (COOLING)	ONE UNIT RUNNING	A	6.01	11.8		
	TWO UNITS RUNNING	A	17.33			
NOMINAL RUNNING CURRENT (HEATING)	ONE UNIT RUNNING	A	6.21	12.9		
	TWO UNITS RUNNING	A	17.53			
EER			W/W	2.46		
COP			W/W	2.62		
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50		
REFRIGERANT TYPE / CONTROL			R22 / CAPILLARY TUBE			
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)		
		OPERATION		WIRELESS HANDSET		
	AIR FLOW	HIGH	l/s / cfm	162.82 / 345	231.38 / 490	
		MEDIUM	l/s / cfm	134.51 / 285	193.52 / 410	
		LOW	l/s / cfm	103.83 / 220	160.48 / 340	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	42 / 36 / 29	44 / 40 / 35	
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2	306 / 12.0	
		WIDTH	mm/in	899 / 35.4	1062 / 41.8	
		DEPTH	mm/in	198 / 7.8	222 / 8.7	
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3	378 / 14.9	
		WIDTH	mm/in	957 / 37.7	1130 / 44.5	
		DEPTH	mm/in	270 / 10.6	292 / 11.5	
	UNIT WEIGHT		kg/lb	12 / 26.46	16 / 35.27	
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.63	20 / 0.79	
OUTDOOR UNIT	AIR FLOW		l/s / cfm	1132.8 / 2400		
	SOUND PRESSURE LEVEL		dBA	61		
	UNIT DIMENSION	HEIGHT	mm/in	631.7 / 24.9		
		WIDTH	mm/in	960 / 37.8		
		DEPTH	mm/in	437 / 17.2		
	PACKING DIMENSION	HEIGHT	mm/in	824 / 32.4		
		WIDTH	mm/in	1194 / 47.0		
		DEPTH	mm/in	611 / 24.1		
	UNIT WEIGHT		kg/lb	100 / 220.46		
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	2 x 6.35 / 2 x 1/4	
			GAS	mm/in	12.7 / 1/2	15.88 / 5/8
REFRIGERANT CHARGE			kg/lb	0.925 / 2.04	1.65 / 3.64	

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.



## General Data - Cooling Only (R407C)

MODEL		OUTDOOR UNIT		M4MSD1010A		M4MSD1515A		
		INDOOR UNIT		2 x MWM010G		2 x MWM015G		
NOMINAL CAPACITY			Btu/h	2 x 9000		2 x 12000		
			W	2 x 2640		2 x 3520		
NOMINAL TOTAL INPUT POWER		ONE UNIT RUNNING	W	1037		1570		
		TWO UNITS RUNNING	W	1904		2970		
NOMINAL RUNNING CURRENT		ONE UNIT RUNNING	A	4.43		7.05		
		TWO UNITS RUNNING	A	8.14		13.38		
EER			W/W	2.77		2.37		
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50				
REFRIGERANT TYPE / CONTROL				R47C / CAPILLARY TUBE				
INDOOR UNIT	CONTROL		AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)			
			OPERATION		WIRELESS HANDSET			
	AIR FLOW		HIGH	l/s / cfm	141.60 / 300		162.82 / 345	
			MEDIUM	l/s / cfm	117.99 / 250		134.51 / 285	
			LOW	l/s / cfm	94.39 / 200		103.83 / 220	
	EXTERNAL STATIC PRESSURE (H/M/L)			Pa/in.wg.	N/A			
	SOUND PRESSURE LEVEL (H/M/L)			dBA	39 / 34 / 28		42 / 36 / 29	
	UNIT DIMENSION		HEIGHT	mm/in	260 / 10.2			
			WIDTH	mm/in	899 / 35.4			
			DEPTH	mm/in	198 / 7.8			
	PACKING DIMENSION		HEIGHT	mm/in	337 / 13.3			
			WIDTH	mm/in	957 / 37.7			
			DEPTH	mm/in	270 / 10.6			
	UNIT WEIGHT			kg/lb	12 / 26.46			
	CONDENSATE DRAIN SIZE			mm/in	16 / 0.63			
OUTDOOR UNIT	AIR FLOW			l/s / cfm	660.8 / 1400			
	SOUND PRESSURE LEVEL			dBA	56			
	UNIT DIMENSION		HEIGHT	mm/in	646 / 25.4			
			WIDTH	mm/in	840 / 33.1			
			DEPTH	mm/in	330 / 13			
	PACKING DIMENSION		HEIGHT	mm/in	710 / 28.0			
			WIDTH	mm/in	982 / 38.7			
			DEPTH	mm/in	461 / 18.1			
	UNIT WEIGHT			kg/lb	62 / 136.69		64 / 141.1	
	PIPE CONNECTION		TYPE		FLARE VALVE			
			SIZE	LIQUID	mm/in	2 x 6.35 / 2 x 1/4		
				GAS	mm/in	2 x 9.52 / 2 x 3/8		2 x 12.7 / 2 x 1/2
REFRIGERANT CHARGE				kg/lb	2 x 0.75 / 2 x 1.65		2 x 0.8 / 2 x 1.76	

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

## General Data - Cooling Only (R407C)

MODEL		OUTDOOR UNIT		M4MSD1015A		
		INDOOR UNIT		MWM010G	MWM015G	
NOMINAL CAPACITY			Btu/h	9000	12000	
			W	2640	3520	
NOMINAL TOTAL INPUT POWER	ONE UNIT RUNNING	W	1037	1570		
	TWO UNITS RUNNING	W	2437			
NOMINAL RUNNING CURRENT	ONE UNIT RUNNING	A	4.43	7.05		
	TWO UNITS RUNNING	A	10.76			
EER			W/W	2.52		
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50		
REFRIGERANT TYPE / CONTROL				R407C / CAPILLARY TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)		
		OPERATION		WIRELESS HANDSET		
	AIR FLOW	HIGH	l/s / cfm	141.60 / 300	162.82 / 345	
		MEDIUM	l/s / cfm	117.99 / 250	134.51 / 285	
		LOW	l/s / cfm	94.39 / 200	103.83 / 220	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	39 / 34 /28	42 / 36 / 29	
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2		
		WIDTH	mm/in	899 / 35.4		
		DEPTH	mm/in	198 / 7.8		
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3		
		WIDTH	mm/in	957 / 37.7		
		DEPTH	mm/in	270 / 10.6		
	UNIT WEIGHT			kg/lb	12 / 26.46	
	CONDENSATE DRAIN SIZE			mm/in	16 / 0.63	
OUTDOOR UNIT	AIR FLOW		l/s / cfm	660.8 / 1400		
	SOUND PRESSURE LEVEL		dBA	56		
	UNIT DIMENSION	HEIGHT	mm/in	646 / 25.4		
		WIDTH	mm/in	840 / 33.1		
		DEPTH	mm/in	330 / 13		
	PACKING DIMENSION	HEIGHT	mm/in	710 / 28.0		
		WIDTH	mm/in	982 / 38.7		
		DEPTH	mm/in	461 / 18.1		
	UNIT WEIGHT			kg/lb	63 / 138.89	
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	6.35 / 1/4	
			GAS	mm/in	9.52 / 3/8	12.7 / 1/2
REFRIGERANT CHARGE			kg/lb	2 x 0.75 / 2 x 1.65	2 x 0.8 / 2 x 1.76	

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

## General Data - Heatpump (R407C)

MODEL		OUTDOOR UNIT		M4MSD1010AR	M4MSD1515AR
		INDOOR UNIT		2 x MWM010GR	2 x MWM015GR
NOMINAL COOLING CAPACITY			Btu/h	2 x 9000	2 x 10500
			W	2 x 2640	2 x 3080
NOMINAL HEATING CAPACITY			Btu/h	2 x 9000	2 x 11500
			W	2 x 2640	2 x 3370
NOMINAL TOTAL INPUT POWER (COOLING)	ONE UNIT RUNNING	W	996	1470	
	TWO UNITS RUNNING	W	1916	2828	
NOMINAL TOTAL INPUT POWER (HEATING)	ONE UNIT RUNNING	W	994	1480	
	TWO UNITS RUNNING	W	1786	2718	
NOMINAL RUNNING CURRENT (COOLING)	ONE UNIT RUNNING	A	4.21	6.73	
	TWO UNITS RUNNING	A	8.14	12.86	
NOMINAL RUNNING CURRENT (HEATING)	ONE UNIT RUNNING	A	4.21	6.73	
	TWO UNITS RUNNING	A	7.62	12.46	
EER			W/W	2.76	2.17
COP			W/W	2.96	2.48
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50	
REFRIGERANT TYPE / CONTROL				R407C / CAPILLARY TUBE	
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)	
		OPERATION		WIRELESS HANDSET	
	AIR FLOW	HIGH	l/s / cfm	141.60 / 300	162.82 / 345
		MEDIUM	l/s / cfm	117.99 / 250	134.51 / 285
		LOW	l/s / cfm	94.39 / 200	103.83 / 220
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	39 / 34 / 28	42 / 36 / 29
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2	
		WIDTH	mm/in	899 / 35.4	
		DEPTH	mm/in	198 / 7.8	
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3	
		WIDTH	mm/in	957 / 37.7	
		DEPTH	mm/in	270 / 10.6	
	UNIT WEIGHT		kg/lb	12 / 26.46	
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.63	
OUTDOOR UNIT	AIR FLOW		l/s / cfm	660.8 / 1400	
	SOUND PRESSURE LEVEL		dBA	56	
	UNIT DIMENSION	HEIGHT	mm/in	646 / 25.4	
		WIDTH	mm/in	840 / 33.1	
		DEPTH	mm/in	330 / 13	
	PACKING DIMENSION	HEIGHT	mm/in	710 / 28.0	
		WIDTH	mm/in	982 / 38.7	
		DEPTH	mm/in	461 / 18.1	
	UNIT WEIGHT		kg/lb	63 / 138.89	65 / 143.3
	PIPE CONNECTION	TYPE		FLARE VALVE	
		SIZE	LIQUID	mm/in	2 x 6.35 / 2 x 1/4
GAS			mm/in	2 x 9.52 / 2 x 3/8	2 x 12.7 / 2 x 1/2
REFRIGERANT CHARGE			kg/lb	2 x 0.725 / 2 x 1.60	2 x 0.8 / 2 x 1.76

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3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

## General Data - Heatpump (R407C)

MODEL		OUTDOOR UNIT		M4MSD1015AR		
		INDOOR UNIT		MWM010GR	MWM015GR	
NOMINAL COOLING CAPACITY			Btu/h	9000	10500	
			W	2640	3080	
NOMINAL HEATING CAPACITY			Btu/h	9000	11500	
			W	2640	3370	
NOMINAL TOTAL INPUT POWER (COOLING)	ONE UNIT RUNNING	W	996	1470		
	TWO UNITS RUNNING	W	2371			
NOMINAL TOTAL INPUT POWER (HEATING)	ONE UNIT RUNNING	W	994	1480		
	TWO UNITS RUNNING	W	2251			
NOMINAL RUNNING CURRENT (COOLING)	ONE UNIT RUNNING	A	4.21	6.73		
	TWO UNITS RUNNING	A	10.54			
NOMINAL RUNNING CURRENT (HEATING)	ONE UNIT RUNNING	A	4.21	6.73		
	TWO UNITS RUNNING	A	10.04			
EER			W/W	2.41		
COP			W/W	2.67		
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50		
REFRIGERANT TYPE / CONTROL			R22 / CAPILLARY TUBE			
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)		
		OPERATION		WIRELESS HANDSET		
	AIR FLOW	HIGH	l/s / cfm	141.60 / 300	162.82 / 345	
		MEDIUM	l/s / cfm	117.99 / 250	134.51 / 285	
		LOW	l/s / cfm	94.39 / 200	103.83 / 220	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	39 / 34 / 28	42 / 36 / 29	
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2		
		WIDTH	mm/in	899 / 35.4		
		DEPTH	mm/in	198 / 7.8		
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3		
		WIDTH	mm/in	957 / 37.7		
		DEPTH	mm/in	270 / 10.6		
	UNIT WEIGHT		kg/lb	12 / 26.46		
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.63		
OUTDOOR UNIT	AIR FLOW		l/s / cfm	660.8 / 1400		
	SOUND PRESSURE LEVEL		dBA	56		
	UNIT DIMENSION	HEIGHT	mm/in	646 / 25.4		
		WIDTH	mm/in	840 / 33.1		
		DEPTH	mm/in	330 / 13		
	PACKING DIMENSION	HEIGHT	mm/in	710 / 28.0		
		WIDTH	mm/in	982 / 38.7		
		DEPTH	mm/in	461 / 18.1		
	UNIT WEIGHT		kg/lb	63 / 138.89	65 / 143.3	
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	2 x 6.35 / 2 x 1/4	
			GAS	mm/in	9.52 / 3/8	12.7 / 1/2
REFRIGERANT CHARGE			kg/lb	2 x 0.725 / 2 x 1.60	2 x 0.8 / 2 x 1.76	

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3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.



## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMSD1010A	MMSD1515A	
	INDOOR UNIT			2 x MWM010G	2 x MWM015G	
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL		
	QUANTITY			1		
	MATERIAL			ASG30		
	DRIVE			DIRECT		
	DIAMETER	mm/in		97 / 3.82		
	LENGTH	mm/in		717.5 / 28.25		
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR	
QUANTITY			1			
INDEX OF PROTECTION (IP)			IP24			
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER	mm/in		406.4 / 16		
OUTDOOR FAN MOTOR	TYPE			INDUCTION MOTOR		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A	N/A	
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			2		
	OIL TYPE			ATMOS M60 / SUNISO 4GDID		
	OIL AMOUNT	cm <sup>3</sup> /fl.oz.		350 / 11.8	410 / 13.9	
INDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	7 / 0.28		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.193 / 2.08		
		ROW		2		
		FIN PER INCH		18		
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER	S.I.G.C.	
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.51 / 5.53		
		ROW		2		
		FIN PER INCH		16		
AIR QUALITY	FILTER	TYPE		NANO FILTER		
		QUANTITY		2		
		SIZE	LENGTH	mm/in	304 / 11.9	
			WIDTH	mm/in	348 / 13.7	
			THICKNESS	mm/in	1.5 / 0.06	
	NEGATIVE IONIZER			YES		
	CASING	INDOOR UNIT		MATERIAL	HIPS	
COLOUR				IVORY		
OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL			
		FINISHING	EPOXY-POLYESTER POWDER			
		COLOUR	LIGHT GREY			

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMSD1015A		
	INDOOR UNIT			MWM010G	MWM015G	
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL		
	QUANTITY			1		
	MATERIAL			ASG30	ASG30	
	DRIVE			DIRECT		
	DIAMETER	mm/in		97 / 3.82		
	LENGTH	mm/in		717.5 / 28.25		
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR	
QUANTITY			1			
INDEX OF PROTECTION (IP)			IP24			
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER	mm/in		406.4 / 16		
OUTDOOR FAN MOTOR	TYPE			INDUCTION MOTOR		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			2		
	OIL TYPE			ATMOS M60 / SUNISO 4GDID		
	OIL AMOUNT	cm <sup>3</sup> /fl.oz.		350 / 11.8	410 / 13.9	
INDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	7 / 0.28		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.193 / 2.08		
		ROW		2		
		FIN PER INCH		18		
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.51 / 5.53		
		ROW		2		
		FIN PER INCH		16		
AIR QUALITY	FILTER	TYPE		NANO FILTER		
		QUANTITY		2		
		SIZE	LENGTH	mm/in	304 / 11.9	
			WIDTH	mm/in	348 / 13.7	
			THICKNESS	mm/in	1.5 / 0.06	
	NEGATIVE IONIZER			YES		
	CASING	INDOOR UNIT		MATERIAL	HIPS	
COLOUR				IVORY		
OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL			
		FINISHING	EPOXY-POLYESTER POWDER			
		COLOUR	LIGHT GREY			

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMSD1020A		
	INDOOR UNIT			MWM010G	MWM020G	
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL		
	QUANTITY			1		
	MATERIAL			ASG30	ASG30	
	DRIVE			DIRECT		
	DIAMETER	mm/in		97 / 3.82	108 / 4.25	
	LENGTH	mm/in		717.5 / 28.25	810 / 31.89	
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR	
QUANTITY			1			
INDEX OF PROTECTION (IP)			IP24	IP20		
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER	mm/in		482.6 / 19		
OUTDOOR FAN MOTOR	TYPE			SINGLE PHASE INDUCTION		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			2		
	OIL TYPE			ATMOS M60 / SUNISO 4GDID		
	OIL AMOUNT	cm <sup>3</sup> /fl.oz.		350 / 11.8	700 / 23.7	
INDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	7 / 0.28		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.193 / 2.08	0.224 / 2.411	
		ROW		2		
		FIN PER INCH		18		
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.586 / 6.31		
		ROW		3		
FIN PER INCH		14				
AIR QUALITY	FILTER	TYPE		NANO FILTER		
		QUANTITY	pc	2		
		SIZE	LENGTH	mm/in	304 / 11.97	351 / 13.82
			WIDTH	mm/in	348 / 13.70	386 / 15.20
			THICKNESS	mm/in	1.5 / 0.06	
	NEGATIVE IONIZER			YES		
CASING	INDOOR UNIT	MATERIAL	HIPS			
		COLOUR	IVORY			
	OUTDOOR UNIT	MATERIAL	GALVANISED MILD STEEL			
		FINISHING	EPOXY-POLYESTER POWDER			
		COLOUR	LIGHT GREY			

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.



## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMSD1520A		
	INDOOR UNIT			MWM015G	MWM020G	
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL		
	QUANTITY			1		
	MATERIAL			ASG30	ASG30	
	DRIVE			DIRECT		
	DIAMETER	mm/in		97 / 3.82	108 / 4.25	
	LENGTH	mm/in		717.5 / 28.25	810 / 31.89	
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR	
QUANTITY			1			
INDEX OF PROTECTION (IP)			IP24	IP20		
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER	mm/in		482.6 / 19		
OUTDOOR FAN MOTOR	TYPE			SINGLE PHASE INDUCTION		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			2		
	OIL TYPE			ATMOS M60 / SUNISO 4GDID		
	OIL AMOUNT	cm³/fl.oz.		410 / 13.9	700 / 23.7	
INDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	7 / 0.28		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m²/ft²	0.193 / 2.08	0.224 / 2.411	
		ROW		2		
		FIN PER INCH		18		
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m²/ft²	0.586 / 6.31		
		ROW		3		
		FIN PER INCH		14		
AIR QUALITY	FILTER	TYPE		NANO FILTER		
		QUANTITY		2		
		SIZE	LENGTH	mm/in	304 / 11.97	351 / 13.82
			WIDTH	mm/in	348 / 13.70	386 / 15.20
			THICKNESS	mm/in	1.5 / 0.06	
	NEGATIVE IONIZER			YES		
CASING	INDOOR UNIT	MATERIAL	HIPS			
		COLOUR	IVORY			
	OUTDOOR UNIT	MATERIAL	GALVANISED MILD STEEL			
		FINISHING	EPOXY-POLYESTER POWDER			
		COLOUR	LIGHT GREY			

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMSD2020A		
	INDOOR UNIT			2 x MWM020G		
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL		
	QUANTITY			1		
	MATERIAL			ASG30		
	DRIVE			DIRECT		
	DIAMETER		mm/in	108 / 4.25		
	LENGTH		mm/in	810 / 31.89		
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR	
QUANTITY			1			
INDEX OF PROTECTION (IP)			IP20			
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER		mm/in	482.6 / 19		
OUTDOOR FAN MOTOR	TYPE			SINGLE PHASE INDUCTION		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			2		
	OIL TYPE			ATMOS M60 / SUNISO 4GDID		
	OIL AMOUNT		cm³/fl.oz.	700 / 23.7		
INDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	7 / 0.28		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m²/ft²	0.224 / 2.411		
		ROW		2		
		FIN PER INCH		18		
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m²/ft²	0.586 / 6.31		
		ROW		3		
		FIN PER INCH		14		
AIR QUALITY	FILTER	TYPE		NANO FILTER		
		QUANTITY	pc	2		
		SIZE	LENGTH	mm/in	351 / 13.8	
			WIDTH	mm/in	386 / 15.2	
			THICKNESS	mm/in	1.5 / 0.06	
	NEGATIVE IONIZER			YES		
CASING	INDOOR UNIT		MATERIAL	HIPS		
			COLOUR	IVORY		
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL		
			FINISHING	EPOXY-POLYESTER POWDER		
			COLOUR	LIGHT GREY		

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMSD1010A	MMSD1515A	
	INDOOR UNIT			2 x MCC010C	2 x MCC015C	
INDOOR FAN	TYPE			CENTRIFUGAL		
	QUANTITY			1	2	
	MATERIAL			GALVANIZED STEEL		
	DRIVE			DIRECT		
	DIAMETER	mm/in	160 / 6.30			
	LENGTH	mm/in	202 / 7.95			
	INDOOR FAN MOTOR	TYPE			INDUCTION	
QUANTITY			1			
INDEX OF PROTECTION (IP)			N/A			
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER	mm/in	406.4 / 16			
OUTDOOR FAN MOTOR	TYPE			INDUCTION		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			2		
	OIL TYPE			ATMOS M60 / SUNISO 4GDID		
	OIL AMOUNT	cm³/fl.oz.	350 / 11.8	410 / 13.9		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER		
		DIAMETER	mm/in	9.52 / %		
		THICKNESS	mm/in	0.35 / 0.014		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.0043		
		FACE AREA	m²/ft²	0.115 / 1.238	0.143 / 1.524	
		ROW	3		3	
		FIN PER INCH	12		14	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER	S.I.G.C	
		DIAMETER	mm/in	9.52 / %		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.0043		
		FACE AREA	m²/ft²	0.51 / 5.53		
		ROW	2		16	
		FIN PER INCH	16			
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER		
		QUANTITY	pc	1		
		SIZE	LENGTH	mm/in	560 / 22.05	700 / 27.56
			WIDTH	mm/in	195 / 7.68	
			THICKNESS	mm/in	5 / 0.20	
	NEGATIVE IONIZER			GALVANIZED STEEL		
	CASING	INDOOR UNIT	MATERIAL	WITH PE INSULATION		
COLOUR			WITHOUT POWDER PAINT			
OUTDOOR UNIT		MATERIAL	GALVANIZED STEEL			
		FINISHING	EPOXY-POLYESTER POWDER			
		COLOUR	LIGHT GREY			

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMSD1015A		
	INDOOR UNIT			MCC010C	MCC015C	
INDOOR FAN	TYPE			CENTRIFUGAL		
	QUANTITY			1	2	
	MATERIAL			GALVANIZED STEEL		
	DRIVE			DIRECT		
	DIAMETER	mm/in		160 / 6.30		
	LENGTH	mm/in		202 / 7.95		
	INDOOR FAN MOTOR	TYPE			INDUCTION	
QUANTITY			1			
INDEX OF PROTECTION (IP)			N/A			
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER	mm/in		406.4 / 16		
OUTDOOR FAN MOTOR	TYPE			INDUCTION		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			2		
	OIL TYPE			ATMOS M60 / SUNISO 4GDID		
	OIL AMOUNT	cm³/fl.oz.		350 / 11.8	410 / 13.9	
INDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER		
		DIAMETER	mm/in	9.52 / ¾		
		THICKNESS	mm/in	0.35 / 0.014		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.0043		
		FACE AREA	m²/ft²	0.115 / 1.238	0.143 / 1.524	
		ROW		3		
		FIN PER INCH		12	14	
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m²/ft²	0.51 / 5.53		
		ROW		2		
FIN PER INCH		16				
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER		
		QUANTITY		1		
		SIZE	LENGTH	mm/in	560 / 22.05	700 / 27.56
			WIDTH	mm/in	195 / 7.68	
			THICKNESS	mm/in	5 / 0.20	
	NEGATIVE IONIZER			GALVANIZED STEEL		
CASING	INDOOR UNIT		MATERIAL	WITH PE INSULATION		
			COLOUR	WITHOUT POWDER PAINT		
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL		
			FINISHING	EPOXY-POLYESTER POWDER		
			COLOUR	LIGHT GREY		

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMSD1020A		
	INDOOR UNIT			MCC010C	MCC020C	
INDOOR FAN	TYPE			CENTRIFUGAL		
	QUANTITY			1	2	
	MATERIAL			GALVANIZED STEEL		
	DRIVE			DIRECT		
	DIAMETER		mm/in	160 / 6.30		
	LENGTH		mm/in	202 / 7.95		
	INDOOR FAN MOTOR	TYPE			INDUCTION	
QUANTITY			1	2		
INDEX OF PROTECTION (IP)			N/A			
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER		mm/in	482.6 / 19		
OUTDOOR FAN MOTOR	TYPE			INDUCTION		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			2		
	OIL TYPE			ATMOS M60 / SUNISO 4GDID		
	OIL AMOUNT		cm³/fl.oz.	350 / 11.8	700 / 23.7	
INDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER		
		DIAMETER	mm/in	9.52 / ¾		
		THICKNESS	mm/in	0.35 / 0.014		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.0043		
		FACE AREA	m²/ft²	0.115 / 1.238	0.143 / 1.525	
		ROW		3	4	
		FIN PER INCH		12	12	
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m²/ft²	0.586 / 6.31		
		ROW		3		
		FIN PER INCH		14		
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER		
		QUANTITY		1		
		SIZE	LENGTH	mm/in	560 / 22.05	860 / 33.86
			WIDTH	mm/in	195 / 7.68	
			THICKNESS	mm/in	5 / 0.20	
	NEGATIVE IONIZER			GALVANIZED STEEL		
CASING	INDOOR UNIT		MATERIAL	WITH PE INSULATION		
			COLOUR	WITHOUT POWDER PAINT		
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL		
			FINISHING	EPOXY-POLYESTER POWDER		
			COLOUR	LIGHT GREY		

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## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMSD1520A		
	INDOOR UNIT			MCC015C	MCC020C	
INDOOR FAN	TYPE			CENTRIFUGAL		
	QUANTITY			2		
	MATERIAL			GALVANIZED STEEL		
	DRIVE			DIRECT		
	DIAMETER		mm/in	160 / 6.30		
	LENGTH		mm/in	203 / 7.95		
	INDOOR FAN MOTOR	TYPE			INDUCTION	
QUANTITY			1	2		
INDEX OF PROTECTION (IP)			N/A			
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER		mm/in	482.6 / 19		
OUTDOOR FAN MOTOR	TYPE			INDUCTION		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			2		
	OIL TYPE			ATMOS M60 / SUNISO 4GDID		
	OIL AMOUNT		cm³/fl.oz.	700 / 23.7		
	INDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER	
DIAMETER			mm/in	9.52 / ¾		
THICKNESS			mm/in	0.35 / 0.015		
FIN		MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.0044		
		FACE AREA	m²/ft²	0.143 / 1.524		
		ROW		3	4	
		FIN PER INCH		14	12	
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m²/ft²	0.586 / 6.31		
		ROW		3		
		FIN PER INCH		14		
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER		
		QUANTITY		1		
		SIZE	LENGTH	mm/in	700 / 27.56	860 / 33.86
			WIDTH	mm/in	195 / 7.68	
			THICKNESS	mm/in	5 / 0.20	
	NEGATIVE IONIZER			GALVANIZED STEEL		
	CASING	INDOOR UNIT		MATERIAL	WITH PE INSULATION	
COLOUR				WITHOUT POWDER PAINT		
OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL			
		FINISHING	EPOXY-POLYESTER POWDER			
		COLOUR	LIGHT GREY			

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## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMSD2020A	
	INDOOR UNIT			2 x MCC020C	
INDOOR FAN	TYPE			CENTRIFUGAL	
	QUANTITY			2	
	MATERIAL			GALVANIZED STEEL	
	DRIVE			DIRECT	
	DIAMETER	mm/in	162 / 6.30		
	LENGTH	mm/in	204 / 7.95		
	INDOOR FAN MOTOR	TYPE			INDUCTION
QUANTITY			2		
INDEX OF PROTECTION (IP)			N/A		
OUTDOOR FAN	TYPE			PROPELLER	
	QUANTITY			1	
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN	
	DRIVE			DIRECT	
	DIAMETER	mm/in	482.6 / 19		
OUTDOOR FAN MOTOR	TYPE			INDUCTION	
	QUANTITY			1	
	INDEX OF PROTECTION (IP)			N/A	
COMPRESSOR	TYPE			ROTARY	
	QUANTITY			2	
	OIL TYPE			ATMOS M60 / SUNISO 4GDID	
	OIL AMOUNT	cm³/fl.oz.	700 / 23.7		
INDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER	
		DIAMETER	mm/in	9.52 / ¾	
		THICKNESS	mm/in	0.35 / 0.016	
	FIN	MATERIAL		ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.0045	
		FACE AREA	m²/ft²	0.143 / 1.525	
		ROW	4		
		FIN PER INCH	12		
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C	
		DIAMETER	mm/in	9.52 / 3/8	
		THICKNESS	mm/in	0.33 / 0.013	
	FIN	MATERIAL		ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.004	
		FACE AREA	m²/ft²	0.586 / 6.31	
		ROW	3		
		FIN PER INCH	14		
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER	
		QUANTITY		1	
		SIZE	LENGTH	mm/in	860 / 33.86
			WIDTH	mm/in	195 / 7.68
			THICKNESS	mm/in	5 / 0.20
	NEGATIVE IONIZER			GALVANIZED STEEL	
	CASING	INDOOR UNIT	MATERIAL	WITH PE INSULATION	
COLOUR			WITHOUT POWDER PAINT		
OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL		
		FINISHING	EPOXY-POLYESTER POWDER		
		COLOUR	LIGHT GREY		

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## Components Data - Cooling Only (R22)

MODEL	INDOOR UNIT			MMSD1010A		MMSD1515A	
	OUTDOOR UNIT			2 x MCK010C		2 x MCK015C	
INDOOR FAN	TYPE			TURBO FAN			
	Q'TY			1			
	MATERIAL			ASG20			
	DRIVE			DIRECT			
	DIAMETER		mm/in	330 / 13.0			
	LENGTH		mm/in	178 / 7.0			
INDOOR FAN MOTOR	TYPE			INDUCTION			
	Q'TY			1			
	INDEX OF PROTECTION (IP)			N/A			
OUTDOOR FAN	TYPE			PROPELLER			
	Q'TY			1			
	MATERIAL			GLASS REINFORCED ACRYL STYRENE RESIN			
	DRIVE			DIRECT			
	DIAMETER		mm/in	406.4 / 16			
OUTDOOR FAN MOTOR	TYPE			INDUCTION			
	Q'TY			1			
	INDEX OF PROTECTION (IP)			N/A			
COMPRESSOR	TYPE			ROTARY			
	QUANTITY			2			
	OIL TYPE			ATMOS M60 / SUNISO 4GDID			
	OIL AMOUNT		cm <sup>3</sup>	350 / 11.8		410 / 13.9	
INDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER			
		DIAMETER	mm/in	7.00 / 0.28			
		THICKNESS	mm/in	0.28 / 0.011			
	FIN	MATERIAL		ALUMINIUM			
		THICKNESS	mm/in	0.11 / 0.0043			
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.318 / 3.42			
		ROW		1		2	
		FIN PER INCH		20		20	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER		S.I.G.C	
		DIAMETER	mm/in	9.52 / 3/8			
		THICKNESS	mm/in	0.33 / 0.013			
	FIN	MATERIAL		ALUMINIUM			
		THICKNESS	mm/in	0.11 / 0.0043			
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.51 / 5.53			
		ROW		2			
		FIN PER INCH		16			
FILTRATION	TYPE			WASHABLE SARANET FILTER			
	QUANTITY		pc	1			
	DIMENSION	LENGTH	mm / in	367.5 / 14.5			
		WIDTH	mm / in	381.0 / 15.0			
		THICKNESS	mm / in	20.8 / 0.8			
CASING	PANEL		MATERIAL	ABS			
			FINISHING	N/A			
			COLOUR	LIGHT GREY			
	INDOOR UNIT		MATERIAL	GALVANIZED STEEL			
			FINISHING	WITH PE INSULATION			
			COLOUR	WITHOUT POWDER PAINT			
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL			
			FINISHING	EPOXY-POLYESTER POWDER			
			COLOUR	LIGHT GREY			

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

## Components Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MMSD1015A	
	OUTDOOR UNIT		MCK010C	MCK015C
INDOOR FAN	TYPE		TURBO FAN	
	Q'TY		1	
	MATERIAL		ASG20	
	DRIVE		DIRECT	
	DIAMETER	mm/in	330 / 13.0	
	LENGTH	mm/in	178 / 7.0	
INDOOR FAN MOTOR	TYPE		INDUCTION	
	Q'TY		1	
	INDEX OF PROTECTION (IP)		N/A	
OUTDOOR FAN	TYPE		PROPELLER	
	Q'TY		1	
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN	
	DRIVE		DIRECT	
	DIAMETER	mm/in	406.4 / 16	
OUTDOOR FAN MOTOR	TYPE		INDUCTION	
	Q'TY		1	
	INDEX OF PROTECTION (IP)		N/A	
COMPRESSOR	TYPE		ROTARY	
	QUANTITY		2	
	OIL TYPE		ATMOS M60 / SUNISO 4GDID	
	OIL AMOUNT	cm <sup>3</sup>	350 / 11.8	410 / 13.9
INDOOR COIL	TUBE	MATERIAL	SEAMLESS COPPER	
		DIAMETER	mm/in	7.00 / 0.28
		THICKNESS	mm/in	0.28 / 0.011
	FIN	MATERIAL	ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.0043
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.318 / 3.42
		ROW	1	2
		FIN PER INCH	20	20
OUTDOOR COIL	TUBE	MATERIAL	S.I.G.C	
		DIAMETER	mm/in	9.52 / 3/8
		THICKNESS	mm/in	0.33 / 0.013
	FIN	MATERIAL	ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.004
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.51 / 5.53
		ROW	2	
		FIN PER INCH	16	
FILTRATION	TYPE		WASHABLE SARANET FILTER	
	QUANTITY		1	
	DIMENSION	LENGTH	mm / in	367.5 / 14.5
		WIDTH	mm / in	381.0 / 15.0
		THICKNESS	mm / in	20.8 / 0.8
CASING	PANEL	MATERIAL	ABS	
		FINISHING	N/A	
		COLOUR	LIGHT GREY	
	INDOOR UNIT	MATERIAL	GALVANIZED STEEL	
		FINISHING	WITH PE INSULATION	
		COLOUR	WITHOUT POWDER PAINT	
	OUTDOOR UNIT	MATERIAL	GALVANISED MILD STEEL	
		FINISHING	EPOXY-POLYESTER POWDER	
		COLOUR	LIGHT GREY	

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

## Components Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MMSD1020A	
	OUTDOOR UNIT		MCK010C	MCK020C
INDOOR FAN	TYPE		TURBO FAN	
	Q'TY		1	
	MATERIAL		ASG20	
	DRIVE		DIRECT	
	DIAMETER	mm/in	330 / 13.00	
	LENGTH	mm/in	178 / 7.00	
INDOOR FAN MOTOR	TYPE		INDUCTION	
	Q'TY		1	
	INDEX OF PROTECTION (IP)		N/A	
OUTDOOR FAN	TYPE		PROPELLER	
	Q'TY		1	
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN	
	DRIVE		DIRECT	
	DIAMETER	mm/in	482.6 / 19	
OUTDOOR FAN MOTOR	TYPE		INDUCTION	
	Q'TY		1	
	INDEX OF PROTECTION (IP)		N/A	
COMPRESSOR	TYPE		ROTARY	
	QUANTITY		2	
	OIL TYPE		ATMOS M60 / SUNISO 4GDID	
	OIL AMOUNT	cm <sup>3</sup>	350 / 11.8	700 / 23.7
INDOOR COIL	TUBE	MATERIAL	SEAMLESS COPPER	
		DIAMETER	mm/in	7.00 / 0.28
		THICKNESS	mm/in	0.28 / 0.011
	FIN	MATERIAL	ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.0043
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.318 / 3.42
		ROW	1	2
		FIN PER INCH	20	20
OUTDOOR COIL	TUBE	MATERIAL	S.I.G.C	
		DIAMETER	mm/in	9.52 / 3/8
		THICKNESS	mm/in	0.33 / 0.013
	FIN	MATERIAL	ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.004
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.586 / 6.31
		ROW	3	
		FIN PER INCH	14	
FILTRATION	TYPE		WASHABLE SARANET FILTER	
	QUANTITY		1	
	DIMENSION	LENGTH	mm / in	367.5 / 14.5
		WIDTH	mm / in	381.0 / 15.0
		THICKNESS	mm / in	20.8 / 0.8
CASING	PANEL	MATERIAL	ABS	
		FINISHING	N/A	
		COLOUR	LIGHT GREY	
	INDOOR UNIT	MATERIAL	GALVANIZED STEEL	
		FINISHING	WITH PE INSULATION	
		COLOUR	WITHOUT POWDER PAINT	
	OUTDOOR UNIT	MATERIAL	GALVANISED MILD STEEL	
		FINISHING	EPOXY-POLYESTER POWDER	
		COLOUR	LIGHT GREY	

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## Components Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MMSD1520A	
	OUTDOOR UNIT		MCK015C	MCK020C
INDOOR FAN	TYPE		TURBO FAN	
	Q'TY		1	
	MATERIAL		ASG20	
	DRIVE		DIRECT	
	DIAMETER	mm/in	330 / 13.00	
	LENGTH	mm/in	178 / 7.00	
INDOOR FAN MOTOR	TYPE		INDUCTION	
	Q'TY		1	
	INDEX OF PROTECTION (IP)		N/A	
OUTDOOR FAN	TYPE		PROPELLER	
	Q'TY		1	
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN	
	DRIVE		DIRECT	
	DIAMETER	mm/in	482.6 / 19	
OUTDOOR FAN MOTOR	TYPE		INDUCTION	
	Q'TY		1	
	INDEX OF PROTECTION (IP)		N/A	
COMPRESSOR	TYPE		ROTARY	
	QUANTITY		2	
	OIL TYPE		ATMOS M60 / SUNISO 4GDID	
	OIL AMOUNT	cm <sup>3</sup>	700 / 23.7	
INDOOR COIL	TUBE	MATERIAL	SEAMLESS COPPER	
		DIAMETER	mm/in	7.00 / 0.28
		THICKNESS	mm/in	0.28 / 0.011
	FIN	MATERIAL	ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.0043
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.318 / 3.42
		ROW	2	
		FIN PER INCH	20	
OUTDOOR COIL	TUBE	MATERIAL	S.I.G.C	
		DIAMETER	mm/in	9.52 / 3/8
		THICKNESS	mm/in	0.33 / 0.013
	FIN	MATERIAL	ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.004
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.586 / 6.31
		ROW	3	
		FIN PER INCH	14	
FILTRATION	TYPE		WASHABLE SARANET FILTER	
	QUANTITY		pc	1
	DIMENSION	LENGTH	mm / in	367.5 / 14.5
		WIDTH	mm / in	381.0 / 15.0
		THICKNESS	mm / in	20.8 / 0.8
CASING	PANEL	MATERIAL	ABS	
		FINISHING	N/A	
		COLOUR	LIGHT GREY	
	INDOOR UNIT	MATERIAL	GALVANIZED STEEL	
		FINISHING	WITH PE INSULATION	
		COLOUR	WITHOUT POWDER PAINT	
	OUTDOOR UNIT	MATERIAL	GALVANISED MILD STEEL	
		FINISHING	EPOXY-POLYESTER POWDER	
		COLOUR	LIGHT GREY	

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

## Components Data - Cooling Only (R22)

MODEL	INDOOR UNIT			MMSD2020A
	OUTDOOR UNIT			2 x MCK020C
INDOOR FAN	TYPE			TURBO FAN
	Q'TY			1
	MATERIAL			ASG20
	DRIVE			DIRECT
	DIAMETER		mm/in	330 / 13.00
	LENGTH		mm/in	178 / 7.00
INDOOR FAN MOTOR	TYPE			INDUCTION
	Q'TY			1
	INDEX OF PROTECTION (IP)			N/A
OUTDOOR FAN	TYPE			PROPELLER
	Q'TY			1
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN
	DRIVE			DIRECT
	DIAMETER		mm/in	482.6 / 19
OUTDOOR FAN MOTOR	TYPE			INDUCTION
	Q'TY			1
	INDEX OF PROTECTION (IP)			N/A
COMPRESSOR	TYPE			ROTARY
	QUANTITY			2
	OIL TYPE			ATMOS M60 / SUNISO 4GDID
	OIL AMOUNT		cm <sup>3</sup>	700 / 23.7
INDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER
		DIAMETER	mm/in	7.00 / 0.28
		THICKNESS	mm/in	0.28 / 0.011
	FIN	MATERIAL		ALUMINIUM
		THICKNESS	mm/in	0.11 / 0.0045
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.318 / 3.42
		ROW		2
		FIN PER INCH		20
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C
		DIAMETER	mm/in	9.52 / 3/8
		THICKNESS	mm/in	0.33 / 0.013
	FIN	MATERIAL		ALUMINIUM
		THICKNESS	mm/in	0.11 / 0.004
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.586 / 6.31
		ROW		3
		FIN PER INCH		14
FILTRATION	TYPE			WASHABLE SARANET FILTER
	QUANTITY		pc	1
	DIMENSION	LENGTH	mm / in	367.5 / 14.5
		WIDTH	mm / in	381.0 / 15.0
		THICKNESS	mm / in	20.8 / 0.8
CASING	PANEL	MATERIAL		ABS
		FINISHING		N/A
		COLOUR		LIGHT GREY
	INDOOR UNIT	MATERIAL		GALVANIZED STEEL
		FINISHING		WITH PE INSULATION
		COLOUR		WITHOUT POWDER PAINT
	OUTDOOR UNIT	MATERIAL		GALVANISED MILD STEEL
		FINISHING		EPOXY-POLYESTER POWDER
		COLOUR		LIGHT GREY

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## Components Data - Heatpump (R22)

MODEL	OUTDOOR UNIT			MMSD1010AR	MMSD1515AR	
	INDOOR UNIT			2 x MWM010GR	2 x MWM015GR	
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL		
	QUANTITY			1		
	MATERIAL			ASG30		
	DRIVE			DIRECT		
	DIAMETER	mm/in		97 / 3.82		
	LENGTH	mm/in		717.5 / 28.25		
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR	
QUANTITY			1			
INDEX OF PROTECTION (IP)			IP24			
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER	mm/in		406.4 / 16		
OUTDOOR FAN MOTOR	TYPE			INDUCTION MOTOR		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			2		
	OIL TYPE			ATMOS M60 / SUNISO 4GDID		
	OIL AMOUNT	cm <sup>3</sup> /fl.oz.		350 / 11.8	410 / 13.9	
INDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	7 / 0.28		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.193 / 2.08		
		ROW		2		
		FIN PER INCH		18		
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.51 / 5.53		
		ROW		2		
		FIN PER INCH		16		
AIR QUALITY	FILTER	TYPE		NANO FILTER		
		QUANTITY		2		
		SIZE	LENGTH	mm/in	304 / 11.9	
			WIDTH	mm/in	348 / 13.7	
			THICKNESS	mm/in	1.5 / 0.06	
	NEGATIVE IONIZER			YES		
	CASING	INDOOR UNIT		MATERIAL	HIPS	
COLOUR				IVORY		
OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL			
		FINISHING	EPOXY-POLYESTER POWDER			
		COLOUR	LIGHT GREY			

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

## Components Data - Heatpump (R22)

MODEL	OUTDOOR UNIT			MMSD1015AR		
	INDOOR UNIT			MWM010GR	MWM015GR	
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL		
	QUANTITY			1		
	MATERIAL			ASG30		
	DRIVE			DIRECT		
	DIAMETER	mm/in		97 / 3.82		
	LENGTH	mm/in		717.5 / 28.25		
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR	
QUANTITY			1			
INDEX OF PROTECTION (IP)			IP24			
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER	mm/in		406.4 / 16		
OUTDOOR FAN MOTOR	TYPE			INDUCTION MOTOR		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			2		
	OIL TYPE			ATMOS M60 / SUNISO 4GDID		
	OIL AMOUNT	cm <sup>3</sup> /fl.oz.		350 / 11.8	410 / 13.9	
INDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	7 / 0.28		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.193 / 2.08		
		ROW		2		
		FIN PER INCH		18		
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.51 / 5.53		
		ROW		2		
		FIN PER INCH		16		
AIR QUALITY	FILTER	TYPE		NANO FILTER		
		QUANTITY		2		
		SIZE	LENGTH	mm/in	304 / 11.9	
			WIDTH	mm/in	348 / 13.7	
			THICKNESS	mm/in	1.5 / 0.06	
	NEGATIVE IONIZER			YES		
	CASING	INDOOR UNIT		MATERIAL	HIPS	
COLOUR				IVORY		
OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL			
		FINISHING	EPOXY-POLYESTER POWDER			
		COLOUR	LIGHT GREY			

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## Components Data - Heatpump (R22)

MODEL	OUTDOOR UNIT			MMSD1520AR		
	INDOOR UNIT			MWM015GR	MWM020GR	
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL		
	QUANTITY			1		
	MATERIAL			ASG30		
	DRIVE			DIRECT		
	DIAMETER	mm/in		97 / 3.82	108 / 4.25	
	LENGTH	mm/in		717.5 / 28.25	810 / 31.89	
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR	
QUANTITY			1			
INDEX OF PROTECTION (IP)			IP24	IP20		
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER	mm/in		482.6 / 19		
OUTDOOR FAN MOTOR	TYPE			SINGLE PHASE INDUCTION		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			2		
	OIL TYPE			ATMOS M60 / SUNISO 4GDID		
	OIL AMOUNT	cm <sup>3</sup> /fl.oz.		410 / 13.9	700 / 23.7	
INDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	7 / 0.28		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.193 / 2.08		
		ROW		2		
		FIN PER INCH		18		
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.51 / 5.53		
		ROW		3		
		FIN PER INCH		14		
AIR QUALITY	FILTER	TYPE		NANO FILTER		
		QUANTITY		2		
		SIZE	LENGTH	mm/in	304 / 11.97	351 / 13.82
			WIDTH	mm/in	348 / 13.70	386 / 15.20
			THICKNESS	mm/in	1.5 / 0.06	
	NEGATIVE IONIZER			YES		
CASING	INDOOR UNIT		MATERIAL	HIPS		
			COLOUR	IVORY		
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL		
			FINISHING	EPOXY-POLYESTER POWDER		
			COLOUR	LIGHT GREY		

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## Components Data - Cooling Only (R407C)

MODEL	OUTDOOR UNIT			M4MSD1010A	M4MSD1515A
	INDOOR UNIT			2 x MWM010G	2 x MWM015G
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL	
	QUANTITY			1	
	MATERIAL			ASG30	
	DRIVE			DIRECT	
	DIAMETER	mm/in		97 / 3.82	
	LENGTH	mm/in		717.5 / 28.25	
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR
QUANTITY			1		
INDEX OF PROTECTION (IP)			IP24		
OUTDOOR FAN	TYPE			PROPELLER	
	QUANTITY			1	
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN	
	DRIVE			DIRECT	
	DIAMETER	mm/in		406.4 / 16	
OUTDOOR FAN MOTOR	TYPE			INDUCTION MOTOR	
	QUANTITY			1	
	INDEX OF PROTECTION (IP)			N/A	N/A
COMPRESSOR	TYPE			ROTARY	
	QUANTITY			2	
	OIL TYPE			RB68A	
	OIL AMOUNT	cm <sup>3</sup> /fl.oz.		350 / 11.9	410 / 13.9
INDOOR COIL	TUBE	MATERIAL		S.I.G.C.	
		DIAMETER	mm/in	7 / 0.28	
		THICKNESS	mm/in	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.004	
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.193 / 2.08	
		ROW		2	
		FIN PER INCH		18	
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.	
		DIAMETER	mm/in	9.52 / 3/8	
		THICKNESS	mm/in	0.33 / 0.013	
	FIN	MATERIAL		ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.004	
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.51 / 5.53	
		ROW		2	
		FIN PER INCH		16	
AIR QUALITY	FILTER	TYPE		NANO FILTER	
		QUANTITY		pc	2
		SIZE	LENGTH	mm/in	304 / 11.9
			WIDTH	mm/in	348 / 13.7
			THICKNESS	mm/in	1.5 / 0.06
	NEGATIVE IONIZER			YES	
	CASING	INDOOR UNIT	MATERIAL	HIPS	
COLOUR			IVORY		
OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL		
		FINISHING	EPOXY-POLYESTER POWDER		
		COLOUR	LIGHT GREY		

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

## Components Data - Cooling Only (R407C)

MODEL	OUTDOOR UNIT			M4MSD1015A		
	INDOOR UNIT			MWM010G	MWM015G	
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL		
	QUANTITY			1		
	MATERIAL			ASG30		
	DRIVE			DIRECT		
	DIAMETER		mm/in	97 / 3.82		
	LENGTH		mm/in	717.5 / 28.25		
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR	
QUANTITY			1			
INDEX OF PROTECTION (IP)			IP24			
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER		mm/in	406.4 / 16		
OUTDOOR FAN MOTOR	TYPE			INDUCTION MOTOR		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			2		
	OIL TYPE			RB68A		
	OIL AMOUNT		cm <sup>3</sup> /fl.oz.	350 / 11.9	410 / 13.9	
INDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	7 / 0.28		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.193 / 2.08		
		ROW		2		
		FIN PER INCH		18		
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.51 / 5.53		
		ROW		2		
		FIN PER INCH		16		
AIR QUALITY	FILTER	TYPE		NANO FILTER		
		QUANTITY		2		
		SIZE	LENGTH	mm/in	304 / 11.9	
			WIDTH	mm/in	348 / 13.7	
			THICKNESS	mm/in	1.5 / 0.06	
		NEGATIVE IONIZER			YES	
	CASING	INDOOR UNIT		MATERIAL	HIPS	
COLOUR				IVORY		
OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL			
		FINISHING	EPOXY-POLYESTER POWDER			
		COLOUR	LIGHT GREY			

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## Components Data - Heatpump (R407C)

MODEL	OUTDOOR UNIT			M4MSD1010AR	M4MSD1515AR	
	INDOOR UNIT			2 x MWM010GR	2 x MWM015GR	
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL		
	QUANTITY			1		
	MATERIAL			ASG30		
	DRIVE			DIRECT		
	DIAMETER	mm/in		97 / 3.82		
	LENGTH	mm/in		717.5 / 28.25		
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR	
QUANTITY			1			
INDEX OF PROTECTION (IP)			IP24			
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER	mm/in		406.4 / 16		
OUTDOOR FAN MOTOR	TYPE			INDUCTION MOTOR		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			2		
	OIL TYPE			RB68A		
	OIL AMOUNT	cm <sup>3</sup> /fl.oz.		350 / 11.9	410 / 13.9	
INDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	7 / 0.28		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.193 / 2.08		
		ROW		2		
		FIN PER INCH		18		
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.51 / 5.53		
		ROW		2		
		FIN PER INCH		16		
AIR QUALITY	FILTER	TYPE		NANO FILTER		
		QUANTITY		2		
		SIZE	LENGTH	mm/in	304 / 11.9	
			WIDTH	mm/in	348 / 13.7	
			THICKNESS	mm/in	1.5 / 0.06	
	NEGATIVE IONIZER			YES		
	CASING	INDOOR UNIT		MATERIAL	HIPS	
COLOUR				IVORY		
OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL			
		FINISHING	EPOXY-POLYESTER POWDER			
		COLOUR	LIGHT GREY			

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.



## Components Data - Heatpump (R407C)

MODEL	OUTDOOR UNIT			M4MSD1015AR		
	INDOOR UNIT			MWM010GR	MWM015GR	
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL		
	QUANTITY			1		
	MATERIAL			ASG30		
	DRIVE			DIRECT		
	DIAMETER		mm/in	97 / 3.82		
	LENGTH		mm/in	717.5 / 28.25		
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR	
QUANTITY			1			
INDEX OF PROTECTION (IP)			IP24			
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER		mm/in	406.4 / 16		
OUTDOOR FAN MOTOR	TYPE			INDUCTION MOTOR		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			2		
	OIL TYPE			RB68A		
	OIL AMOUNT		cm <sup>3</sup> /fl.oz.	350 / 11.9	410 / 13.9	
INDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	7 / 0.28		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.193 / 2.08		
		ROW		2		
		FIN PER INCH		18		
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.51 / 5.53		
		ROW		2		
		FIN PER INCH		16		
AIR QUALITY	FILTER	TYPE		NANO FILTER		
		QUANTITY		2		
		SIZE	LENGTH	mm/in	304 / 11.9	
			WIDTH	mm/in	348 / 13.7	
			THICKNESS	mm/in	1.5 / 0.06	
	NEGATIVE IONIZER			YES		
	CASING	INDOOR UNIT		MATERIAL	HIPS	
COLOUR				IVORY		
OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL			
		FINISHING	EPOXY-POLYESTER POWDER			
		COLOUR	LIGHT GREY			

1) ALL SPECIFICATIONS ARE SUBJECT TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

# MMST

## General Data - Cooling Only (R22)

MODEL			OUTDOOR UNIT		MMST101010A		MMST151515A		
			INDOOR UNIT		3 x MWM010G		3 x MWM015G		
NOMINAL CAPACITY				Btu/h	28500 (9500 - 28500)		38100 (12700 - 38100)		
				W	8350 (2780 - 8350)		11170 (3720 - 11170)		
NOMINAL TOTAL INPUT POWER				W	2685 (1051 - 2685)		4188 (1614 - 4188)		
NOMINAL RUNNING CURRENT				A	12.59 (4.85 - 12.59)		18.41 (7.08 - 18.41)		
EER				W/W	3.11		2.67		
POWER SOURCE				V/Ph/Hz	220 ~ 240 / 1 / 50				
REFRIGERANT TYPE / CONTROL					R22 / CAPILLARY TUBE				
INDOOR UNIT	CONTROL		AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)				
			OPERATION		WIRELESS HANDSET				
	AIR FLOW		HIGH	l/s / cfm	141.60 / 300		162.82 / 345		
			MEDIUM	l/s / cfm	117.99 / 250		134.51 / 285		
			LOW	l/s / cfm	94.39 / 200		103.83 / 220		
	EXTERNAL STATIC PRESSURE (H/M/L)			Pa/in.wg.	N/A				
	SOUND PRESSURE LEVEL (H/M/L)			dBA	39 / 34 / 28		42 / 36 / 29		
	UNIT DIMENSION		HEIGHT	mm/in	260 / 10.2				
			WIDTH	mm/in	899 / 35.4				
			DEPTH	mm/in	198 / 7.8				
	PACKING DIMENSION		HEIGHT	mm/in	337 / 13.3				
			WIDTH	mm/in	957 / 37.7				
			DEPTH	mm/in	270 / 10.6				
	UNIT WEIGHT			kg/lb	12 / 26.46				
	CONDENSATE DRAIN SIZE			mm/in	16 / 0.63				
OUTDOOR UNIT	AIR FLOW			l/s / cfm	1132.8 / 2400				
	SOUND PRESSURE LEVEL			dBA	61 / 58		62 / 59		
	UNIT DIMENSION		HEIGHT	mm/in	631.7 / 24.9				
			WIDTH	mm/in	960.0 / 37.8				
			DEPTH	mm/in	437.0 / 17.2				
	PACKING DIMENSION		HEIGHT	mm/in	824 / 32.4				
			WIDTH	mm/in	1,194 / 47.0				
			DEPTH	mm/in	611 / 24.1				
	UNIT WEIGHT			kg/lb	97 / 213.8		109 / 240.3		
	PIPE CONNECTION		TYPE		FLARE VALVE				
			SIZE	LIQUID	mm/in	3 x 6.35 / 3 x 1/4			
				GAS	mm/in	3 x 9.52 / 3 x 3/8		3 x 12.7 / 3 x 1/2	
	REFRIGERANT CHARGE			kg/lb	3 x 0.8 / 3 x 1.76		3 x 0.825 / 3 x 1.82		

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

## General Data - Cooling Only (R22)

MODEL			OUTDOOR UNIT		MMST101015A		
			INDOOR UNIT		2 x MWM010G	MWM015G	
NOMINAL CAPACITY			Btu/h		31700 (9500 - 31700)		
			W		9280 (2780 - 9280)		
NOMINAL TOTAL INPUT POWER			W		3142 (1024 - 3142)		
NOMINAL RUNNING CURRENT			A		14.50 (4.37 - 14.50)		
EER			W/W		2.96		
POWER SOURCE			V/Ph/Hz		220 ~ 240 / 1 / 50		
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE			
INDOOR UNIT	CONTROL		AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)		
			OPERATION		WIRELESS HANDSET		
	AIR FLOW		HIGH	l/s / cfm	141.60 / 300	162.82 / 345	
			MEDIUM	l/s / cfm	117.99 / 250	134.51 / 285	
			LOW	l/s / cfm	94.39 / 200	103.83 / 220	
	EXTERNAL STATIC PRESSURE (H/M/L)			Pa/in.wg.	N/A		
	SOUND PRESSURE LEVEL (H/M/L)			dBA	39 / 34 / 28	42 / 36 / 29	
	UNIT DIMENSION		HEIGHT	mm/in	260 / 10.2		
			WIDTH	mm/in	899 / 35.4		
			DEPTH	mm/in	198 / 7.8		
	PACKING DIMENSION		HEIGHT	mm/in	337 / 13.3		
			WIDTH	mm/in	957 / 37.7		
			DEPTH	mm/in	270 / 10.6		
	UNIT WEIGHT			kg/lb	12 / 26.46		
	CONDENSATE DRAIN SIZE			mm/in	16 / 0.63		
OUTDOOR UNIT	AIR FLOW		l/s / cfm	1132.8 / 2400			
	SOUND PRESSURE LEVEL		dBA	61 / 58			
	UNIT DIMENSION		HEIGHT	mm/in	631.7 / 24.9		
			WIDTH	mm/in	960.0 / 37.8		
			DEPTH	mm/in	437.0 / 17.2		
	PACKING DIMENSION		HEIGHT	mm/in	824 / 32.4		
			WIDTH	mm/in	1,194 / 47.0		
			DEPTH	mm/in	611 / 24.1		
	UNIT WEIGHT			kg/lb	101 / 222.7		
	PIPE CONNECTION		TYPE		FLARE VALVE		
			SIZE	LIQUID	mm/in	3 x 6.35 / 3 x 1/4	
				GAS	mm/in	2 x 9.52 / 2 x 3/8	12.7 / 1/2
	REFRIGERANT CHARGE			kg/lb	2 x 0.8 / 2 x 1.76	0.825 / 1.82	

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.



## General Data - Cooling Only (R22)

MODEL			OUTDOOR UNIT		MMST101515A		
			INDOOR UNIT		MWM010G	2 x MWM015G	
NOMINAL CAPACITY			Btu/h	34900 (9500 - 34900)			
			W	10220 (2780 - 10220)			
NOMINAL TOTAL INPUT POWER			W	3665 (1024 - 3665)			
NOMINAL RUNNING CURRENT			A	16.31 (4.37 - 16.31)			
EER			W/W	2.79			
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50			
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE			
INDOOR UNIT	CONTROL		AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)		
			OPERATION		WIRELESS HANDSET		
	AIR FLOW	HIGH	l/s / cfm	141.60 / 300	162.82 / 345		
		MEDIUM	l/s / cfm	117.99 / 250	134.51 / 285		
		LOW	l/s / cfm	94.39 / 200	103.83 / 220		
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A			
	SOUND PRESSURE LEVEL (H/M/L)		dBA	39 / 34 / 28	42 / 36 / 29		
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2			
		WIDTH	mm/in	899 / 35.4			
		DEPTH	mm/in	198 / 7.8			
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3			
		WIDTH	mm/in	957 / 37.7			
		DEPTH	mm/in	270 / 10.6			
	UNIT WEIGHT		kg/lb	12 / 26.46			
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.63			
OUTDOOR UNIT	AIR FLOW		l/s / cfm	1132.8 / 2400			
	SOUND PRESSURE LEVEL		dBA	62 / 59			
	UNIT DIMENSION	HEIGHT	mm/in	631.7 / 24.9			
		WIDTH	mm/in	960.0 / 37.8			
		DEPTH	mm/in	437.0 / 17.2			
	PACKING DIMENSION	HEIGHT	mm/in	824 / 32.4			
		WIDTH	mm/in	1,194 / 47.0			
		DEPTH	mm/in	611 / 24.1			
	UNIT WEIGHT		kg/lb	105 / 231.5			
	PIPE CONNECTION		TYPE		FLARE VALVE		
			SIZE	LIQUID	mm/in	3 x 6.35 / 3 x 1/4	
				GAS	mm/in	9.52 / 3/8	2 x 12.7 / 2 x 1/2
	REFRIGERANT CHARGE		kg/lb	0.8 / 1.76		2 x 0.825 / 2 x 1.82	

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

## General Data - Cooling Only (R22)

MODEL		OUTDOOR UNIT		MMST101020A		
		INDOOR UNIT		2 x MWM010G	MWM020G	
NOMINAL CAPACITY			Btu/h	37000 (5000 - 37000)		
			W	10840 (2780 - 10840)		
NOMINAL TOTAL INPUT POWER			W	4035 (1111 - 4035)		
NOMINAL RUNNING CURRENT			A	18.10 (4.93 - 18.10)		
EER			W/W	2.69		
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50		
REFRIGERANT TYPE / CONTROL			R22 / CAPILLARY TUBE			
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)		
		OPERATION		WIRELESS HANDSET		
	AIR FLOW	HIGH	l/s / cfm	141.60 / 300	231.48 / 490	
		MEDIUM	l/s / cfm	117.99 / 250	193.52 / 410	
		LOW	l/s / cfm	94.39 / 200	160.48 / 340	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	39 / 34 / 28	44 / 40 / 35	
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2	306 / 12.0	
		WIDTH	mm/in	899 / 35.4	1062 / 41.8	
		DEPTH	mm/in	198 / 7.8	222 / 8.7	
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3	378 / 14.9	
		WIDTH	mm/in	957 / 37.7	1130 / 44.5	
		DEPTH	mm/in	270 / 10.6	292 / 11.5	
	UNIT WEIGHT		kg/lb	12 / 26.46	16 / 35.27	
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.63	20 / 0.79	
OUTDOOR UNIT	AIR FLOW		l/s / cfm	1132.8 / 2400		
	SOUND PRESSURE LEVEL		dBA	61 / 58		
	UNIT DIMENSION	HEIGHT	mm/in	631.7 / 24.9		
		WIDTH	mm/in	960.0 / 37.8		
		DEPTH	mm/in	437.0 / 17.2		
	PACKING DIMENSION	HEIGHT	mm/in	824 / 32.4		
		WIDTH	mm/in	1,194 / 47.0		
		DEPTH	mm/in	611 / 24.1		
	UNIT WEIGHT		kg/lb	104 / 229.3		
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	3 x 6.35 / 3 x 1/4	
			GAS	mm/in	2 x 9.52 / 2 x 3/8	12.7 / 1/2
REFRIGERANT CHARGE		kg/lb	2 x 0.65 / 2 x 1.43	1.075 / 2.37		

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

## General Data - Cooling Only (R22)

MODEL		OUTDOOR UNIT		MMST101025A		
		INDOOR UNIT		2 x MWM010G	MWM025G	
NOMINAL CAPACITY			Btu/h	42000 (9500 - 42000)		
			W	12300 (2780 - 12300)		
NOMINAL TOTAL INPUT POWER			W	4280 (1117 - 4280)		
NOMINAL RUNNING CURRENT			A	20.20 (4.93 - 20.20)		
EER			W/W	2.88		
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50		
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)		
		OPERATION		WIRELESS HANDSET		
	AIR FLOW	HIGH	l/s / cfm	141.60 / 300	306.77 / 650	
		MEDIUM	l/s / cfm	117.99 / 250	235.97 / 500	
		LOW	l/s / cfm	94.39 / 200	212.38 / 450	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	39 / 34 / 28	49 / 43 / 40	
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2	306 / 12.0	
		WIDTH	mm/in	899 / 35.4	1062 / 41.8	
		DEPTH	mm/in	198 / 7.8	222 / 8.7	
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3	378 / 14.9	
		WIDTH	mm/in	957 / 37.7	1130 / 44.5	
		DEPTH	mm/in	270 / 10.6	292 / 11.5	
	UNIT WEIGHT		kg/lb	12 / 26.46	16 / 35.27	
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.63	20 / 0.79	
OUTDOOR UNIT	AIR FLOW		l/s / cfm	1132.8 / 2400		
	SOUND PRESSURE LEVEL		dBA	57		
	UNIT DIMENSION	HEIGHT	mm/in	850 / 33.46		
		WIDTH	mm/in	1030 / 40.55		
		DEPTH	mm/in	400 / 15.75		
	PACKING DIMENSION	HEIGHT	mm/in	1000 / 39.37		
		WIDTH	mm/in	1200 / 47.24		
		DEPTH	mm/in	560 / 22.05		
	UNIT WEIGHT		kg/lb	117 / 257.94		
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	3 x 6.35 / 3 x 1/4	
			GAS	mm/in	2 x 9.52 / 2 x 3/8	15.88 / 5/8
REFRIGERANT CHARGE			kg/lb	2 x 0.74 / 2 x 1.63	1.44 / 3.17	

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

## General Data - Cooling Only (R22)

MODEL		OUTDOOR UNIT		MMST151525A		
		INDOOR UNIT		2 x MWM015G	MWM025G	
NOMINAL CAPACITY			Btu/h	47000 (12000 - 47000)		
			W	13780 (3520 - 13780)		
NOMINAL TOTAL INPUT POWER			W	5300 (1548 - 5300)		
NOMINAL RUNNING CURRENT			A	25.10 (7.11 - 25.10)		
EER			W/W	2.60		
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50		
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)		
		OPERATION		WIRELESS HANDSET		
	AIR FLOW	HIGH	l/s / cfm	162.82 / 345	306.77 / 650	
		MEDIUM	l/s / cfm	134.51 / 285	235.97 / 500	
		LOW	l/s / cfm	103.83 / 220	212.38 / 450	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	42 / 36 / 29	49 / 43 / 40	
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2	306 / 12.0	
		WIDTH	mm/in	899 / 35.4	1062 / 41.8	
		DEPTH	mm/in	198 / 7.8	222 / 8.7	
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3	378 / 14.9	
		WIDTH	mm/in	957 / 37.7	1130 / 44.5	
		DEPTH	mm/in	270 / 10.6	292 / 11.5	
	UNIT WEIGHT		kg/lb	12 / 26.46	16 / 35.27	
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.63	20 / 0.79	
OUTDOOR UNIT	AIR FLOW		l/s / cfm	1132.8 / 2400		
	SOUND PRESSURE LEVEL		dBA	57		
	UNIT DIMENSION	HEIGHT	mm/in	850 / 33.46		
		WIDTH	mm/in	1030 / 40.55		
		DEPTH	mm/in	400 / 15.75		
	PACKING DIMENSION	HEIGHT	mm/in	1000 / 39.37		
		WIDTH	mm/in	1200 / 47.24		
		DEPTH	mm/in	560 / 22.05		
	UNIT WEIGHT		kg/lb	123 / 271.2		
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	3 x 6.35 / 3 x 1/4	
			GAS	mm/in	2 x 12.7 / 2 x 1/2	15.88 / 5/8
REFRIGERANT CHARGE			kg/lb	2 x 0.87 / 2 x 1.92	1.44 / 3.17	

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.



## General Data - Cooling Only (R22)

MODEL		OUTDOOR UNIT		MMST101520A			
		INDOOR UNIT		MWM010G	MWM015G	MWM020G	
NOMINAL CAPACITY			Btu/h	40200 (9500 - 40200)			
			W	11780 (2780 - 11780)			
NOMINAL TOTAL INPUT POWER			W	4522 (1117 - 4522)			
NOMINAL RUNNING CURRENT			A	19.36 (4.93 - 19.36)			
EER			W/W	2.61			
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50			
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE			
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)			
		OPERATION		WIRELESS HANDSET			
	AIR FLOW	HIGH	l/s / cfm	141.60 / 300	162.82 / 345	231.48 / 490	
		MEDIUM	l/s / cfm	117.99 / 250	134.51 / 285	193.52 / 410	
		LOW	l/s / cfm	94.39 / 200	103.83 / 220	160.48 / 340	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A			
	SOUND PRESSURE LEVEL (H/M/L)		dBA	39 / 34 / 28	42 / 36 / 29	44 / 40 / 35	
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2		306 / 12.0	
		WIDTH	mm/in	899 / 35.4		1062 / 41.8	
		DEPTH	mm/in	198 / 7.8		222 / 8.7	
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3		378 / 14.9	
		WIDTH	mm/in	957 / 37.7		1130 / 44.5	
		DEPTH	mm/in	270 / 10.6		292 / 11.5	
	UNIT WEIGHT		kg/lb	12 / 26.46		16 / 35.27	
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.63		20 / 0.79	
OUTDOOR UNIT	AIR FLOW		l/s / cfm	1132.8 / 2400			
	SOUND PRESSURE LEVEL		dBA	57			
	UNIT DIMENSION	HEIGHT	mm/in	850 / 33.46			
		WIDTH	mm/in	1030 / 40.55			
		DEPTH	mm/in	400 / 15.75			
	PACKING DIMENSION	HEIGHT	mm/in	1000 / 39.37			
		WIDTH	mm/in	1200 / 47.24			
		DEPTH	mm/in	560 / 22.05			
	UNIT WEIGHT		kg/lb	120 / 264.6			
	PIPE CONNECTION	TYPE		FLARE VALVE			
		SIZE	LIQUID	mm/in	3 x 6.35 / 3 x 1/4		
			GAS	mm/in	9.52 / 3/8	12.7 / 1/2	15.88 / 5/8
	REFRIGERANT CHARGE		kg/lb	0.74 / 1.63	0.90 / 1.98	1.30 / 2.87	

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

## General Data - Cooling Only (R22)

MODEL		OUTDOOR UNIT		MMST101525A				
		INDOOR UNIT		MWM010G	MWM015G	MWM025G		
NOMINAL CAPACITY			Btu/h	44500 (9500 - 44500)				
			W	13040 (2780 - 13040)				
NOMINAL TOTAL INPUT POWER			W	4798 (1117 - 4798)				
NOMINAL RUNNING CURRENT			A	22.70 (5.14 - 22.70)				
EER			W/W	2.72				
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50				
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE				
INDOOR UNIT	CONTROL		AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)			
			OPERATION		WIRELESS HANDSET			
	AIR FLOW		HIGH	l/s / cfm	141.60 / 300	162.82 / 345	306.77 / 650	
			MEDIUM	l/s / cfm	117.99 / 250	134.51 / 285	235.97 / 500	
			LOW	l/s / cfm	94.39 / 200	103.83 / 220	212.38 / 450	
	EXTERNAL STATIC PRESSURE (H/M/L)			Pa/in.wg.	N/A			
	SOUND PRESSURE LEVEL (H/M/L)			dBA	39 / 34 / 28	42 / 36 / 29	49 / 43 / 40	
	UNIT DIMENSION		HEIGHT	mm/in	260 / 10.2		306 / 12.0	
			WIDTH	mm/in	899 / 35.4		1062 / 41.8	
			DEPTH	mm/in	198 / 7.8		222 / 8.7	
	PACKING DIMENSION		HEIGHT	mm/in	337 / 13.3		378 / 14.9	
			WIDTH	mm/in	957 / 37.7		1130 / 44.5	
			DEPTH	mm/in	270 / 10.6		292 / 11.5	
	UNIT WEIGHT			kg/lb	12 / 26.46		16 / 35.27	
	CONDENSATE DRAIN SIZE			mm/in	16 / 0.63		20 / 0.79	
OUTDOOR UNIT	AIR FLOW		l/s / cfm	1132.8 / 2400				
	SOUND PRESSURE LEVEL		dBA	57				
	UNIT DIMENSION		HEIGHT	mm/in	850 / 33.46			
			WIDTH	mm/in	1030 / 40.55			
			DEPTH	mm/in	400 / 15.75			
	PACKING DIMENSION		HEIGHT	mm/in	1000 / 39.37			
			WIDTH	mm/in	1200 / 47.24			
			DEPTH	mm/in	560 / 22.05			
	UNIT WEIGHT			kg/lb	120 / 264.6			
	PIPE CONNECTION		TYPE		FLARE VALVE			
			SIZE	LIQUID	mm/in	3 x 6.35 / 3 x 1/4		
				GAS	mm/in	9.52 / 3/8	12.7 / 1/2	15.88 / 5/8
	REFRIGERANT CHARGE			kg/lb	0.8 / 1.76	0.825 / 1.82	1.44 / 3.17	

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.



## General Data - Cooling Only (R22)

MODEL		OUTDOOR UNIT		MMST151520A		
		INDOOR UNIT		2 x MWM015G	MWM020G	
NOMINAL CAPACITY			Btu/h	43500 (12700 - 43500)		
			W	12737 (3720 - 12737)		
NOMINAL TOTAL INPUT POWER			W	4808 (1548 - 4808)		
NOMINAL RUNNING CURRENT			A	22.3 (6.81 - 22.30)		
EER			W/W	2.65		
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50		
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)		
		OPERATION		WIRELESS HANDSET		
	AIR FLOW	HIGH	l/s / cfm	162.82 / 345	231.48 / 490	
		MEDIUM	l/s / cfm	134.51 / 285	193.52 / 410	
		LOW	l/s / cfm	103.83 / 220	160.48 / 340	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	42 / 36 / 29	49 / 43 / 40	
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2	306 / 12.0	
		WIDTH	mm/in	899 / 35.4	1062 / 41.8	
		DEPTH	mm/in	198 / 7.8	222 / 8.7	
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3	378 / 14.9	
		WIDTH	mm/in	957 / 37.7	1130 / 44.5	
		DEPTH	mm/in	270 / 10.6	292 / 11.5	
	UNIT WEIGHT		kg/lb	12 / 26.46	16 / 35.27	
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.63	20 / 0.79	
OUTDOOR UNIT	AIR FLOW		l/s / cfm	1132.8 / 2400		
	SOUND PRESSURE LEVEL		dBA	57		
	UNIT DIMENSION	HEIGHT	mm/in	850 / 33.46		
		WIDTH	mm/in	1030 / 40.55		
		DEPTH	mm/in	400 / 15.75		
	PACKING DIMENSION	HEIGHT	mm/in	1000 / 39.37		
		WIDTH	mm/in	1200 / 47.24		
		DEPTH	mm/in	560 / 22.05		
	UNIT WEIGHT		kg/lb	123 / 271.2		
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	3 x 6.35 / 3 x 1/4	
			GAS	mm/in	2 x 12.7 / 2 x 1/2	15.88 / 5/8
REFRIGERANT CHARGE			kg/lb	2 x 0.9 / 2 x 1.98	1.3 / 2.87	

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3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

## General Data - Cooling Only (R22)

MODEL		INDOOR UNIT		MMST101010A	MMST151515A	
		OUTDOOR UNIT		3 x MCC010C	3 x MCC015C	
NOMINAL CAPACITY			Btu/h	28500 (9500 - 28500)	38100 (12700 - 38100)	
			W	8350 (2780 - 8350)	11170 (3720 - 11170)	
NOMINAL TOTAL INPUT POWER			W	2808 (1092 - 2808)	4386 (1680 - 4386)	
NOMINAL RUNNING CURRENT			A	13.1 (5.0 - 13.1)	19.3 (7.4 - 19.3)	
EER			W/W	3.04	2.59	
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50	220 ~ 240 / 1 / 50	
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE	R22 / CAPILLARY TUBE	
INDOOR UNIT	CONTROL	AIR DISCHARGE		DUCTED	DUCTED	
		OPERATION		SLM WIRED HANDSET	SLM WIRED HANDSET	
	AIR FLOW	HIGH	L/s / CFM	142 / 300	241 / 510	
		MEDIUM	L/s / CFM	123 / 260	208 / 440	
		LOW	L/s / CFM	104 / 220	170 / 360	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa (in.wg.)	49 / 39 / 29 (0.2 / 0.2 / 0.1)	49 / 39 / 20 (0.2 / 0.2 / 0.1)	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	33 / 30 / 26	37 / 34 / 29	
	UNIT DIMENSION	HEIGHT	mm/in	261 / 10.3	261 / 10.3	
		WIDTH	mm/in	765 / 30.1	905 / 35.6	
		DEPTH	mm/in	411 / 16.2	411 / 16.2	
	PACKING DIMENSION	HEIGHT	mm/in	376 / 14.8	376 / 14.8	
		WIDTH	mm/in	951 / 37.4	1091 / 43.0	
		DEPTH	mm/in	535 / 21.3	541 / 21.3	
	UNIT WEIGHT		kg/lb	17 / 38	21 / 46	
	CONDENSATE DRAIN SIZE		mm/in	19.1 / ¾		
OUTDOOR UNIT	AIR FLOW		L/s / CFM	1132.7 / 2400		
	SOUND PRESSURE LEVEL		dBA	61	62	
	UNIT DIMENSION	HEIGHT	mm/in	632 / 24.9		
		WIDTH	mm/in	960 / 37.8		
		DEPTH	mm/in	437 / 17.2		
	PACKING DIMENSION	HEIGHT	mm/in	824 / 32.4		
		WIDTH	mm/in	1,194 / 47.0		
		DEPTH	mm/in	611 / 24.1		
	UNIT WEIGHT		kg/lb	97 / 213.8	109 / 240.3	
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	3 X 2.4 / 3 X ¼	
			GAS	mm/in	3 x 9.52 / 3 x ¾	
	REFRIGERANT CHARGE			kg/lb	3 X 0.83 / 3 X 1.83	3 X 0.83 / 3 X 1.83

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3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.5m BELOW UNIT.  
(TESTED WITH 2M LENGTH DUCT AT AIR DISCHARGE OUTLET AND 1M DUCT LENGTH AT AIR RETURN INLET.)

## General Data - Cooling Only (R22)

MODEL		INDOOR UNIT		MMST101015A		
		OUTDOOR UNIT		2 x MCC010C	MCC015C	
NOMINAL CAPACITY			Btu/h	31700 (9500 - 31700)		
			W	9280 (2780 - 9270)		
NOMINAL TOTAL INPUT POWER			W	3290 (1065 - 3290)		
NOMINAL RUNNING CURRENT			A	15.2 (4.6 - 15.2)		
EER			W/W	2.88		
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50		
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		DUCTED		
		OPERATION		SLM WIRED HANDSET		
	AIR FLOW	HIGH	L/s / CFM	142 / 300	241 / 510	
		MEDIUM	L/s / CFM	123 / 260	208 / 440	
		LOW	L/s / CFM	104 / 220	170 / 360	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa (in.wg.)	49 / 39 / 29 (0.2 / 0.2 / 0.1)	49 / 39 / 20 (0.2 / 0.2 / 0.1)	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	33 / 30 / 26	37 / 34 / 29	
	UNIT DIMENSION	HEIGHT	mm/in	261 / 10.3	261 / 10.3	
		WIDTH	mm/in	765 / 30.1	905 / 35.6	
		DEPTH	mm/in	411 / 16.2	411 / 16.2	
	PACKING DIMENSION	HEIGHT	mm/in	376 / 14.8	376 / 14.8	
		WIDTH	mm/in	951 / 37.4	1091 / 43.0	
		DEPTH	mm/in	535 / 21.3	541 / 21.3	
	UNIT WEIGHT		kg/lb	17 / 38	21 / 46	
	CONDENSATE DRAIN SIZE		mm/in	19.1 / ¾		
OUTDOOR UNIT	AIR FLOW		L/s / CFM	1132.7 / 2400		
	SOUND PRESSURE LEVEL		dBA	61		
	UNIT DIMENSION	HEIGHT	mm/in	632 / 24.9		
		WIDTH	mm/in	960 / 37.8		
		DEPTH	mm/in	437 / 17.2		
	PACKING DIMENSION	HEIGHT	mm/in	824 / 32.4		
		WIDTH	mm/in	1,194 / 47.0		
		DEPTH	mm/in	611 / 24.1		
	UNIT WEIGHT		kg/lb	63 / 138.9		
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	3 x 6.35 / 3 x ¼	
			GAS	mm/in	2 x 9.52 / 2 x ¾	12.7 ½
REFRIGERANT CHARGE		kg/lb	2 x 0.80 / 2 x 1.76	2 x 0.83 x 2 x 1.83		

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3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.5m BELOW UNIT.  
(TESTED WITH 2M LENGTH DUCT AT AIR DISCHARGE OUTLET AND 1M DUCT LENGTH AT AIR RETURN INLET.)

## General Data - Cooling Only (R22)

MODEL		INDOOR UNIT		MMST101515A		
		OUTDOOR UNIT		MCC010C	2 x MCC015C	
NOMINAL CAPACITY			Btu/h	34900 (9500 - 34900)		
			W	10220 (2780 - 10220)		
NOMINAL TOTAL INPUT POWER			W	3813 (1065 - 3813)		
NOMINAL RUNNING CURRENT			A	17.0 (4.6 - 17.0)		
EER			W/W	2.71		
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50		
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		DUCTED		
		OPERATION		SLM WIRED HANDSET		
	AIR FLOW	HIGH	L/s / CFM	142 / 300	241 / 510	
		MEDIUM	L/s / CFM	123 / 260	208 / 440	
		LOW	L/s / CFM	104 / 220	170 / 360	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa (in.wg.)	49 / 39 / 29 (0.2 / 0.2 / 0.1)	49 / 39 / 20 (0.2 / 0.2 / 0.1)	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	33 / 30 / 26	37 / 34 / 29	
	UNIT DIMENSION	HEIGHT	mm/in	261 / 10.3	261 / 10.3	
		WIDTH	mm/in	765 / 30.1	905 / 35.6	
		DEPTH	mm/in	411 / 16.2	411 / 16.2	
	PACKING DIMENSION	HEIGHT	mm/in	376 / 14.8	376 / 14.8	
		WIDTH	mm/in	951 / 37.4	1091 / 43.0	
		DEPTH	mm/in	535 / 21.3	541 / 21.3	
	UNIT WEIGHT		kg/lb	17 / 38	21 / 46	
	CONDENSATE DRAIN SIZE		mm/in	19.1 / ¾		
OUTDOOR UNIT	AIR FLOW		L/s / CFM	1132.7 / 2400		
	SOUND PRESSURE LEVEL		dBA	62		
	UNIT DIMENSION	HEIGHT	mm/in	632 / 24.9		
		WIDTH	mm/in	960 / 37.8		
		DEPTH	mm/in	437 / 17.2		
	PACKING DIMENSION	HEIGHT	mm/in	824 / 32.4		
		WIDTH	mm/in	1,194 / 47.0		
		DEPTH	mm/in	611 / 24.1		
	UNIT WEIGHT		kg/lb	105 / 231.5		
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	3 x 6.35 / 3 x ¼	
			GAS	mm/in	9.52 / ¾	2 X 12.7 / 2 X ½
REFRIGERANT CHARGE		kg/lb	0.80 / 1.76	2 x 0.83 x 2 x 1.83		

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3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.5m BELOW UNIT.  
(TESTED WITH 2M LENGTH DUCT AT AIR DISCHARGE OUTLET AND 1M DUCT LENGTH AT AIR RETURN INLET.)

## General Data - Cooling Only (R22)

MODEL		INDOOR UNIT		MMST101020A		
		OUTDOOR UNIT		2 x MCC010C	MCC020C	
NOMINAL CAPACITY			Btu/h	37000 (9500 - 37000)		
			W	10840 (2780 - 10840)		
NOMINAL TOTAL INPUT POWER			W	4208 (1152 - 4208)		
NOMINAL RUNNING CURRENT			A	18.9 (5.1 - 18.9)		
EER			W/W	2.62		
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50		
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		DUCTED		
		OPERATION		SLM WIRED HANDSET		
	AIR FLOW	HIGH	L/s / CFM	142 / 300	241 / 510	
		MEDIUM	L/s / CFM	123 / 260	208 / 440	
		LOW	L/s / CFM	104 / 220	170 / 360	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa (in.wg.)	49 / 39 / 29 (0.2 / 0.2 / 0.1)	49 / 39 / 20 (0.2 / 0.2 / 0.1)	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	33 / 30 / 26	37 / 34 / 29	
	UNIT DIMENSION	HEIGHT	mm/in	261 / 10.3	261 / 10.3	
		WIDTH	mm/in	765 / 30.1	1065 / 41.9	
		DEPTH	mm/in	411 / 16.2	411 / 16.2	
	PACKING DIMENSION	HEIGHT	mm/in	376 / 14.8	376 / 14.8	
		WIDTH	mm/in	951 / 37.4	1251 / 49.3	
		DEPTH	mm/in	535 / 21.3	541 / 21.3	
	UNIT WEIGHT		kg/lb	17 / 38	22 / 49	
	CONDENSATE DRAIN SIZE		mm/in	19.1 / ¾		
OUTDOOR UNIT	AIR FLOW		L/s / CFM	1132.7 / 2400		
	SOUND PRESSURE LEVEL		dBA	61		
	UNIT DIMENSION	HEIGHT	mm/in	632 / 24.9		
		WIDTH	mm/in	960 / 37.8		
		DEPTH	mm/in	437 / 17.2		
	PACKING DIMENSION	HEIGHT	mm/in	824 / 32.4		
		WIDTH	mm/in	1,194 / 47.0		
		DEPTH	mm/in	611 / 24.1		
	UNIT WEIGHT		kg/lb	63 / 138.89		
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	3 x 6.35 / 3 x ¼	
			GAS	mm/in	2 x 9.52 / 2 x ¾	15.9 / ¾
REFRIGERANT CHARGE			kg/lb	2 x 0.65 / 2 x 1.43	1.08 / 2.37	

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3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.5m BELOW UNIT.  
(TESTED WITH 2M LENGTH DUCT AT AIR DISCHARGE OUTLET AND 1M DUCT LENGTH AT AIR RETURN INLET.)

## General Data - Cooling Only (R22)

MODEL			OUTDOOR UNIT		MMST101525A			
			INDOOR UNIT		MCC010C	MCC015C	MCC025C	
NOMINAL CAPACITY			Btu/h	44500 (9500 - 23000)				
			W	13040 (2780 - 6740)				
NOMINAL TOTAL INPUT POWER			W	5004 (1166 - 5004)				
NOMINAL RUNNING CURRENT			A	23.6 (5.3 - 23.6)				
EER			W/W	2.65				
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50				
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE				
INDOOR UNIT	CONTROL		AIR DISCHARGE		DUCTED			
			OPERATION		SLM WIRED HANDSET			
	AIR FLOW		HIGH	l/s / cfm	142 / 300	241 / 510	345 / 730	
			MEDIUM	l/s / cfm	123 / 260	208 / 440	340 / 720	
			LOW	l/s / cfm	104 / 220	170 / 360	274 / 580	
	EXTERNAL STATIC PRESSURE (H/M/L)			Pa/in.wg.	49 / 39 / 29 (0.2 / 0.2 / 0.1)	49 / 39 / 20 (0.2 / 0.2 / 0.1)	55 / 39 / 29 (0.2 / 0.2 / 0.1)	
	SOUND PRESSURE LEVEL (H/M/L)			dBA	33 / 30 / 26	37 / 34 / 29	40 / 39 / 36	
	UNIT DIMENSION		HEIGHT	mm/in	261 / 10.3	261 / 10.3	261 / 10.3	
			WIDTH	mm/in	765 / 30.1	905 / 35.6	1200 / 47.2	
			DEPTH	mm/in	411 / 16.2	411 / 16.2	411 / 16.2	
	PACKING DIMENSION		HEIGHT	mm/in	376 / 14.8	376 / 14.8	376 / 14.8	
			WIDTH	mm/in	951 / 37.4	1091 / 43.0	1386 / 54.6	
			DEPTH	mm/in	535 / 21.3	541 / 21.3	541 / 21.3	
	UNIT WEIGHT			kg/lb	17 / 38	21 / 46	25 / 55	
	CONDENSATE DRAIN SIZE			mm/in	19.1 / ¾			
OUTDOOR UNIT	AIR FLOW		l/s / cfm	1132.7 / 2400				
	SOUND PRESSURE LEVEL		dBA	57				
	UNIT DIMENSION		HEIGHT	mm/in	850 / 33.5			
			WIDTH	mm/in	1030 / 40.6			
			DEPTH	mm/in	400 / 15.8			
	PACKING DIMENSION		HEIGHT	mm/in	1000 / 39.4			
			WIDTH	mm/in	1200 / 47.2			
			DEPTH	mm/in	560 / 22.1			
	UNIT WEIGHT			kg/lb	120 / 264.6			
	PIPE CONNECTION		TYPE		FLARE VALVE			
			SIZE	LIQUID	mm/in	3 x 6.35 / 3 x ¼		
				GAS	mm/in	9.52 / ⅝	12.7 / ½	15.9 / ⅝
	REFRIGERANT CHARGE			kg/lb	0.74 / 1.63	0.87 / 1.92	1.44 / 3.17	

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.5m BELOW UNIT.  
(TESTED WITH 2M LENGTH DUCT AT AIR DISCHARGE OUTLET AND 1M DUCT LENGTH AT AIR RETURN INLET.)



## General Data - Cooling Only (R22)

MODEL		INDOOR UNIT		MMST151525A		
		OUTDOOR UNIT		2 x MCC015C	MCC025C	
NOMINAL CAPACITY			Btu/h	47000 (12000 - 47000)		
			W	13780 (3520 - 13780)		
NOMINAL TOTAL INPUT POWER			W	5531 (1614 - 5531)		
NOMINAL RUNNING CURRENT			A	26.1 (7.4 - 26.1)		
EER			W/W	2.53		
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50		
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		DUCTED		
		OPERATION		SLM WIRED HANDSET		
	AIR FLOW	HIGH	L/s / CFM	241 / 510	345 / 730	
		MEDIUM	L/s / CFM	208 / 440	340 / 720	
		LOW	L/s / CFM	170 / 360	274 / 580	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa (in.wg.)	49 / 39 / 20 (0.2 / 0.2 / 0.1)	55 / 39 / 29 (0.2 / 0.2 / 0.1)	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	37 / 34 / 29	40 / 39 / 36	
	UNIT DIMENSION	HEIGHT	mm/in	261 / 10.3	261 / 10.3	
		WIDTH	mm/in	905 / 35.6	1200 / 47.2	
		DEPTH	mm/in	411 / 16.2	411 / 16.2	
	PACKING DIMENSION	HEIGHT	mm/in	376 / 14.8	376 / 14.8	
		WIDTH	mm/in	1091 / 43.0	1386 / 54.6	
		DEPTH	mm/in	541 / 21.3	541 / 21.3	
	UNIT WEIGHT		kg/lb	21 / 46	25 / 55	
	CONDENSATE DRAIN SIZE		mm/in	19.1 / ¾		
OUTDOOR UNIT	AIR FLOW		L/s / CFM	1132.7 / 2400		
	SOUND PRESSURE LEVEL		dBA	57		
	UNIT DIMENSION	HEIGHT	mm/in	850 / 33.5		
		WIDTH	mm/in	1030 / 40.6		
		DEPTH	mm/in	400 / 15.8		
	PACKING DIMENSION	HEIGHT	mm/in	1000 / 39.4		
		WIDTH	mm/in	1200 / 47.2		
		DEPTH	mm/in	560 / 22.1		
	UNIT WEIGHT		kg/lb	123 / 271.2		
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	3 x 6.35 / 3 x ¼	
			GAS	mm/in	2 x 12.7 / 2 x ½	15.9 / ¾
REFRIGERANT CHARGE		kg/lb	2 x 0.87 / 2 x 1.92	1.44 / 3.17		

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.5m BELOW UNIT.  
(TESTED WITH 2M LENGTH DUCT AT AIR DISCHARGE OUTLET AND 1M DUCT LENGTH AT AIR RETURN INLET.)

## General Data - Cooling Only (R22)

MODEL		INDOOR UNIT		MMST101010A	MMST151515A	
		OUTDOOR UNIT		3 x MCK010C	3 x MCK015C	
NOMINAL CAPACITY			Btu/h	28500 (9500 - 28500)	38100 (12700 - 38100)	
			W	8350 (2780 - 8350)	11170 (3720 - 11170)	
NOMINAL TOTAL INPUT POWER			W	2772 (1080 - 2772)	4287 (1647 - 4287)	
NOMINAL RUNNING CURRENT			A	12.98 (4.98 - 12.98)	18.86 (7.23 - 18.86)	
EER			W/W	3.01	2.61	
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50	220 ~ 240 / 1 / 50	
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE	R22 / CAPILLARY TUBE	
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)		
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL		
	AIR FLOW	HIGH	L/s / CFM	194 / 410		
		MEDIUM	L/s / CFM	184 / 390		
		LOW	L/s / CFM	175 / 370		
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa (in.wg.)	N/A		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	44 / 43 / 42	44 / 42 / 41	
	UNIT DIMENSION	HEIGHT	mm/in	250 (295) / 9.8 (11.6)		
		WIDTH	mm/in	570 (640) / 22.4 (25.2)		
		DEPTH	mm/in	570 (640) / 22.4 (25.2)		
	PACKING DIMENSION	HEIGHT	mm/in	317 (127) / 12.5 (5).0		
		WIDTH	mm/in	630 (700) / 24.8 (27.6)		
		DEPTH	mm/in	630 (700) / 24.8 (27.6)		
UNIT WEIGHT		kg/lb	22 + 2 / 49 + 4	23 + 2 / 51 + 4		
CONDENSATE DRAIN SIZE		mm/in	19.1 / ¾			
OUTDOOR UNIT	AIR FLOW		L/s / CFM	1132.7 / 2400		
	SOUND PRESSURE LEVEL		dBA	61	62	
	UNIT DIMENSION	HEIGHT	mm/in	632 / 24.9		
		WIDTH	mm/in	960 / 37.8		
		DEPTH	mm/in	437 / 17.2		
	PACKING DIMENSION	HEIGHT	mm/in	824 / 32.4		
		WIDTH	mm/in	1,194 / 47.0		
		DEPTH	mm/in	611 / 24.1		
	UNIT WEIGHT		kg/lb	97 / 213.8	109 / 240.3	
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	3 X 2.4 / 3 X ¼	
			GAS	mm/in	3 x 9.52 / 3 x ¾	
	REFRIGERANT CHARGE		kg/lb	3 X 0.83 / 3 X 1.83	3 X 0.83 / 3 X 1.83	

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA.

## General Data - Cooling Only (R22)

MODEL		INDOOR UNIT		MMST101015A		
		OUTDOOR UNIT		2 x MCK010C	MCK015C	
NOMINAL CAPACITY			Btu/h	31700 (9500 - 31700)		
			W	9280 (2780 - 9270)		
NOMINAL TOTAL INPUT POWER			W	3233 (1053 - 3233)		
NOMINAL RUNNING CURRENT			A	14.91 (4.50 - 14.91)		
EER			W/W	2.88		
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50		
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)		
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL		
	AIR FLOW	HIGH	L/s / CFM	194 / 410		
		MEDIUM	L/s / CFM	184 / 390		
		LOW	L/s / CFM	175 / 370		
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa (in.wg.)	N/A		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	44 / 43 / 42	44 / 42 / 41	
	UNIT DIMENSION	HEIGHT	mm/in	250 (295) / 9.8 (11.6)		
		WIDTH	mm/in	570 (640) / 22.4 (25.2)		
		DEPTH	mm/in	570 (640) / 22.4 (25.2)		
	PACKING DIMENSION	HEIGHT	mm/in	317 (127) / 12.5 (5).0		
		WIDTH	mm/in	630 (700) / 24.8 (27.6)		
		DEPTH	mm/in	630 (700) / 24.8 (27.6)		
	UNIT WEIGHT		kg/lb	22 + 2 / 49 + 4	23 + 2 / 51 + 4	
	CONDENSATE DRAIN SIZE		mm/in	19.1 / ¾		
OUTDOOR UNIT	AIR FLOW		L/s / CFM	1132.7 / 2400		
	SOUND PRESSURE LEVEL		dBA	61		
	UNIT DIMENSION	HEIGHT	mm/in	632 / 24.9		
		WIDTH	mm/in	960 / 37.8		
		DEPTH	mm/in	437 / 17.2		
	PACKING DIMENSION	HEIGHT	mm/in	824 / 32.4		
		WIDTH	mm/in	1,194 / 47.0		
		DEPTH	mm/in	611 / 24.1		
	UNIT WEIGHT		kg/lb	63 / 138.9		
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	3 x 6.35 / 3 x ¼	
			GAS	mm/in	2 x 9.52 / 2 x ¾	12.7 ½
REFRIGERANT CHARGE		kg/lb	2 x 0.80 / 2 x 1.76	2 x 0.83 x 2 x 1.83		

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FACIA.

## General Data - Cooling Only (R22)

MODEL		INDOOR UNIT		MMST101515A	
		OUTDOOR UNIT		MCK010C	2 x MCK015C
NOMINAL CAPACITY			Btu/h	34900 (9500 - 34900)	
			W	10220 (2780 - 10220)	
NOMINAL TOTAL INPUT POWER			W	3756 (1053 - 3756)	
NOMINAL RUNNING CURRENT			A	16.72 (4.50 - 16.72)	
EER			W/W	2.79	
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50	
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE	
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)	
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL	
	AIR FLOW	HIGH	L/s / CFM	194 / 410	
		MEDIUM	L/s / CFM	184 / 390	
		LOW	L/s / CFM	175 / 370	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa (in.wg.)	N/A	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	44 / 43 / 42	44 / 42 / 41
	UNIT DIMENSION	HEIGHT	mm/in	250 (295) / 9.8 (11.6)	
		WIDTH	mm/in	570 (640) / 22.4 (25.2)	
		DEPTH	mm/in	570 (640) / 22.4 (25.2)	
	PACKING DIMENSION	HEIGHT	mm/in	317 (127) / 12.5 (5).0	
		WIDTH	mm/in	630 (700) / 24.8 (27.6)	
		DEPTH	mm/in	630 (700) / 24.8 (27.6)	
	UNIT WEIGHT		kg/lb	22 + 2 / 49 + 4	23 + 2 / 51 + 4
	CONDENSATE DRAIN SIZE		mm/in	19.1 / ¾	
OUTDOOR UNIT	AIR FLOW		L/s / CFM	1132.7 / 2400	
	SOUND PRESSURE LEVEL		dBA	62	
	UNIT DIMENSION	HEIGHT	mm/in	632 / 24.9	
		WIDTH	mm/in	960 / 37.8	
		DEPTH	mm/in	437 / 17.2	
	PACKING DIMENSION	HEIGHT	mm/in	824 / 32.4	
		WIDTH	mm/in	1,194 / 47.0	
		DEPTH	mm/in	611 / 24.1	
	UNIT WEIGHT		kg/lb	105 / 231.5	
	PIPE CONNECTION	TYPE		FLARE VALVE	
		SIZE	LIQUID	mm/in	3 x 6.35 / 3 x ¼
GAS			mm/in	9.52 / ¾	2 X 12.7 / 2 X ½
REFRIGERANT CHARGE		kg/lb	0.80 / 1.76	2 x 0.83 x 2 x 1.83	

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FACIA.

# General Data - Cooling Only (R22)

MODEL		INDOOR UNIT		MMST101020A		
		OUTDOOR UNIT		2 x MCK010C	MCK020C	
NOMINAL CAPACITY			Btu/h	37000 (9500 - 37000)		
			W	10840 (2780 - 10840)		
NOMINAL TOTAL INPUT POWER			W	4035 (1111 - 4035)		
NOMINAL RUNNING CURRENT			A	18.10 (4.93 - 18.10)		
EER			W/W	2.62		
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50		
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)		
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL		
	AIR FLOW	HIGH	L/s / CFM	194 / 410	212 / 450	
		MEDIUM	L/s / CFM	184 / 390	203 / 430	
		LOW	L/s / CFM	175 / 370	194 / 410	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa (in.wg.)	N/A		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	44 / 43 / 42	47 / 46 / 44	
	UNIT DIMENSION	HEIGHT	mm/in	250 (295) / 9.8 (11.6)	250 (295) / 9.8 (11.6)	
		WIDTH	mm/in	570 (640) / 22.4 (25.2)	570 (640) / 22.4 (25.2)	
		DEPTH	mm/in	570 (640) / 22.4 (25.2)	570 (640) / 22.4 (25.2)	
	PACKING DIMENSION	HEIGHT	mm/in	317 (127) / 12.5 (5).0	317 (127) / 12.5 (5.0)	
		WIDTH	mm/in	630 (700) / 24.8 (27.6)	630 (700) / 24.8 (27.6)	
		DEPTH	mm/in	630 (700) / 24.8 (27.6)	630 (700) / 24.8 (27.6)	
	UNIT WEIGHT		kg/lb	22 + 2 / 49 + 4	23 + 2 / 51 + 4	
CONDENSATE DRAIN SIZE		mm/in	19.1 / ¾			
OUTDOOR UNIT	AIR FLOW		L/s / CFM	1132.7 / 2400		
	SOUND PRESSURE LEVEL		dBA	61		
	UNIT DIMENSION	HEIGHT	mm/in	632 / 24.9		
		WIDTH	mm/in	960 / 37.8		
		DEPTH	mm/in	437 / 17.2		
	PACKING DIMENSION	HEIGHT	mm/in	824 / 32.4		
		WIDTH	mm/in	1,194 / 47.0		
		DEPTH	mm/in	611 / 24.1		
	UNIT WEIGHT		kg/lb	63 / 138.89		
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	3 x 6.35 / 3 x ¼	
			GAS	mm/in	2 x 9.52 / 2 x ¾	15.9 / ¾
	REFRIGERANT CHARGE		kg/lb	2 x 0.65 / 2 x 1.43	1.08 / 2.37	

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FACIA.

## General Data - Cooling Only (R22)

MODEL		INDOOR UNIT		MMST101025A		
		OUTDOOR UNIT		2 x MCK010C	MCK025A	
NOMINAL CAPACITY			Btu/h	42000 (9500 - 42000)		
			W	12300 (2780 - 12300)		
NOMINAL TOTAL INPUT POWER			W	4416 (1146 - 4416)		
NOMINAL RUNNING CURRENT			A	20.79 (5.06 - 20.79)		
EER			W/W	2.79		
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50		
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)		
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL		
	AIR FLOW	HIGH	L/s / CFM	194 / 410	368 / 780	
		MEDIUM	L/s / CFM	184 / 390	311 / 660	
		LOW	L/s / CFM	175 / 370	283 / 600	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa (in.wg.)	N/A		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	44 / 43 / 42	45 / 42 / 40	
	UNIT DIMENSION	HEIGHT	mm/in	250 (295) / 9.8 (11.6)	335 (363) / 13.2 (14.3)	
		WIDTH	mm/in	570 (640) / 22.4 (25.2)	820 (930) / 32.2 (36.6)	
		DEPTH	mm/in	570 (640) / 22.4 (25.2)	820 (930) / 32.2 (36.6)	
	PACKING DIMENSION	HEIGHT	mm/in	317 (127) / 12.5 (5).0	380 (130) / 15.0 (5.1)	
		WIDTH	mm/in	630 (700) / 24.8 (27.6)	920 (1020) / 36.2 (40.2)	
		DEPTH	mm/in	630 (700) / 24.8 (27.6)	920 (1000) / 36.2 (39.4)	
	UNIT WEIGHT		kg/lb	22 + 2 / 49 + 4	32 + 4 / 71 + 9	
CONDENSATE DRAIN SIZE		mm/in	19.1 / ¾			
OUTDOOR UNIT	AIR FLOW		L/s / CFM	1132.7 / 2400		
	SOUND PRESSURE LEVEL		dBA	57		
	UNIT DIMENSION	HEIGHT	mm/in	850 / 33.5		
		WIDTH	mm/in	1030 / 40.6		
		DEPTH	mm/in	400 / 15.8		
	PACKING DIMENSION	HEIGHT	mm/in	1000 / 39.4		
		WIDTH	mm/in	1200 / 47.2		
		DEPTH	mm/in	560 / 22.1		
	UNIT WEIGHT		kg/lb	63 / 138.9		
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	2 x 6.35 / 2 x ¼	9.52 / ¾
			GAS	mm/in	2 x 9.52 / 2 x ¾	15.9 / ¾
	REFRIGERANT CHARGE		kg/lb	2 x 0.74 / 2 x 1.63		

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FACIA.



## General Data - Cooling Only (R22)

MODEL		INDOOR UNIT		MMST101025A		
		OUTDOOR UNIT		2 x MCK010C	MCK025A	
NOMINAL CAPACITY			Btu/h	42000 (9500 - 42000)		
			W	12300 (2780 - 12300)		
NOMINAL TOTAL INPUT POWER			W	4416 (1146 - 4416)		
NOMINAL RUNNING CURRENT			A	20.79 (5.06 - 20.79)		
EER			W/W	2.79		
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50		
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)		
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL		
	AIR FLOW	HIGH	L/s / CFM	194 / 410	368 / 780	
		MEDIUM	L/s / CFM	184 / 390	311 / 660	
		LOW	L/s / CFM	175 / 370	283 / 600	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa (in.wg.)	N/A		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	44 / 43 / 42	45 / 42 / 40	
	UNIT DIMENSION	HEIGHT	mm/in	250 (295) / 9.8 (11.6)	335 (363) / 13.2 (14.3)	
		WIDTH	mm/in	570 (640) / 22.4 (25.2)	820 (930) / 32.2 (36.6)	
		DEPTH	mm/in	570 (640) / 22.4 (25.2)	820 (930) / 32.2 (36.6)	
	PACKING DIMENSION	HEIGHT	mm/in	317 (127) / 12.5 (5).0	380 (130) / 15.0 (5.1)	
		WIDTH	mm/in	630 (700) / 24.8 (27.6)	920 (1020) / 36.2 (40.2)	
		DEPTH	mm/in	630 (700) / 24.8 (27.6)	920 (1000) / 36.2 (39.4)	
	UNIT WEIGHT		kg/lb	22 + 2 / 49 + 4	32 + 4 / 71 + 9	
CONDENSATE DRAIN SIZE		mm/in	19.1 / ¾			
OUTDOOR UNIT	AIR FLOW		L/s / CFM	1132.7 / 2400		
	SOUND PRESSURE LEVEL		dBA	57		
	UNIT DIMENSION	HEIGHT	mm/in	850 / 33.5		
		WIDTH	mm/in	1030 / 40.6		
		DEPTH	mm/in	400 / 15.8		
	PACKING DIMENSION	HEIGHT	mm/in	1000 / 39.4		
		WIDTH	mm/in	1200 / 47.2		
		DEPTH	mm/in	560 / 22.1		
	UNIT WEIGHT		kg/lb	63 / 138.9		
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	2 x 6.35 / 2 x ¼	9.52 / ¾
			GAS	mm/in	2 x 9.52 / 2 x ¾	15.9 / ¾
REFRIGERANT CHARGE			kg/lb	2 x 0.74 / 2 x 1.63	1.44 / 3.17	

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FACIA.

## General Data - Cooling Only (R22)

MODEL		OUTDOOR UNIT		MMST101525A			
		INDOOR UNIT		MCK010C	MCK015C	MCK025A	
NOMINAL CAPACITY			Btu/h	44500 (9500 - 23000)			
			W	13040 (2780 - 6740)			
NOMINAL TOTAL INPUT POWER			W	4938 (1154 - 4938)			
NOMINAL RUNNING CURRENT			A	23.27 (5.23 - 23.27)			
EER			W/W	2.64			
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50			
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE			
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)			
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL			
	AIR FLOW	HIGH	l/s / cfm	194 / 410		368 / 780	
		MEDIUM	l/s / cfm	184 / 390		311 / 660	
		LOW	l/s / cfm	175 / 370		283 / 600	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A			
	SOUND PRESSURE LEVEL (H/M/L)		dBA	44 / 43 / 42	44 / 42 / 41	45 / 42 / 40	
	UNIT DIMENSION	HEIGHT	mm/in	250 (295) / 9.8 (11.6)		335 (363) / 13.2 (14.3)	
		WIDTH	mm/in	570 (640) / 22.4 (25.2)		820 (930) / 32.2 (36.6)	
		DEPTH	mm/in	570 (640) / 22.4 (25.2)		820 (930) / 32.2 (36.6)	
	PACKING DIMENSION	HEIGHT	mm/in	317 (127) / 12.5 (5).0		380 (130) / 15.0 (5.1)	
		WIDTH	mm/in	630 (700) / 24.8 (27.6)		920 (1020) / 36.2 (40.2)	
		DEPTH	mm/in	630 (700) / 24.8 (27.6)		920 (1000) / 36.2 (39.4)	
	UNIT WEIGHT		kg/lb	22 + 2 / 49 + 4	23 + 2 / 51 + 4	32 + 4 / 71 + 9	
	CONDENSATE DRAIN SIZE		mm/in	19.1 / ¾			
OUTDOOR UNIT	AIR FLOW		l/s / cfm	1132.7 / 2400			
	SOUND PRESSURE LEVEL		dBA	57			
	UNIT DIMENSION	HEIGHT	mm/in	850 / 33.5			
		WIDTH	mm/in	1030 / 40.6			
		DEPTH	mm/in	400 / 15.8			
	PACKING DIMENSION	HEIGHT	mm/in	1000 / 39.4			
		WIDTH	mm/in	1200 / 47.2			
		DEPTH	mm/in	560 / 22.1			
	UNIT WEIGHT		kg/lb	120 / 264.6			
	PIPE CONNECTION	TYPE		FLARE VALVE			
		SIZE	LIQUID	mm/in	3 x 6.35 / 3 x ¼		
			GAS	mm/in	9.52 / ¾	12.7 / ½	15.9 / ⅝
	REFRIGERANT CHARGE		kg/lb	0.74 / 1.63	0.87 / 1.92	1.44 / 3.17	

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FACIA.

## General Data - Cooling Only (R22)

MODEL		INDOOR UNIT		MMST151525A		
		OUTDOOR UNIT		2 x MCK015C	MCK025A	
NOMINAL CAPACITY			Btu/h	47000 (12000 - 47000)		
			W	13780 (3520 - 13780)		
NOMINAL TOTAL INPUT POWER			W	5444 (1548 - 5444)		
NOMINAL RUNNING CURRENT			A	25.73 (7.11 - 25.73)		
EER			W/W	2.53		
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50		
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		4 WAY AUTOMATIC LOUVER (UP & DOWN)		
		OPERATION		WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL		
	AIR FLOW	HIGH	L/s / CFM	194 / 410	368 / 780	
		MEDIUM	L/s / CFM	184 / 390	311 / 660	
		LOW	L/s / CFM	175 / 370	283 / 600	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa (in.wg.)	N/A		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	44 / 43 / 42	45 / 42 / 40	
	UNIT DIMENSION	HEIGHT	mm/in	250 (295) / 9.8 (11.6)	335 (363) / 13.2 (14.3)	
		WIDTH	mm/in	570 (640) / 22.4 (25.2)	820 (930) / 32.2 (36.6)	
		DEPTH	mm/in	570 (640) / 22.4 (25.2)	820 (930) / 32.2 (36.6)	
	PACKING DIMENSION	HEIGHT	mm/in	317 (127) / 12.5 (5).0	380 (130) / 15.0 (5.1)	
		WIDTH	mm/in	630 (700) / 24.8 (27.6)	920 (1020) / 36.2 (40.2)	
		DEPTH	mm/in	630 (700) / 24.8 (27.6)	920 (1000) / 36.2 (39.4)	
	UNIT WEIGHT		kg/lb	22 + 2 / 49 + 4	32 + 4 / 71 + 9	
	CONDENSATE DRAIN SIZE		mm/in	19.1 / ¾		
OUTDOOR UNIT	AIR FLOW		L/s / CFM	1132.7 / 2400		
	SOUND PRESSURE LEVEL		dBA	57		
	UNIT DIMENSION	HEIGHT	mm/in	850 / 33.5		
		WIDTH	mm/in	1030 / 40.6		
		DEPTH	mm/in	400 / 15.8		
	PACKING DIMENSION	HEIGHT	mm/in	1000 / 39.4		
		WIDTH	mm/in	1200 / 47.2		
		DEPTH	mm/in	560 / 22.1		
	UNIT WEIGHT		kg/lb	123 / 271.2		
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	3 x 6.35 / 3 x ¼	
			GAS	mm/in	2 x 12.7 / 2 x ½	15.9 / ¾
REFRIGERANT CHARGE		kg/lb	2 x 0.87 / 2 x 1.92	1.44 / 3.17		

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FACIA.

## General Data - Heatpump (R22)

MODEL		OUTDOOR UNIT		MMST101010AR	MMST151515AR	
		INDOOR UNIT		3 x MWM010GR	3 x MWM015GR	
NOMINAL COOLING CAPACITY			Btu/h	27000 (9000 - 27000)	36000 (12000 - 36000)	
			W	7910 (2640 - 7910)	10550 (3520 - 10550)	
NOMINAL HEATING CAPACITY			Btu/h	27000 (9000 - 27000)	33000 (11000 - 33000)	
			W	7910 (2640 - 7910)	9670 (3220 - 9670)	
NOMINAL TOTAL INPUT POWER (COOLING)			W	2544	3957	
NOMINAL TOTAL INPUT POWER (HEATING)			W	2337	3420	
NOMINAL RUNNING CURRENT (COOLING)			A	11.42	17.93	
NOMINAL RUNNING CURRENT (HEATING)			A	10.61	15.71	
EER			W/W	3.11	2.67	
COP			W/W	2.38	2.83	
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50		
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)		
		OPERATION		WIRELESS HANDSET		
	AIR FLOW	HIGH	l/s / cfm	141.60 / 300	162.82 / 345	
		MEDIUM	l/s / cfm	117.99 / 250	134.51 / 285	
		LOW	l/s / cfm	94.39 / 200	103.83 / 220	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	39 / 34 / 28	42 / 36 / 29	
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2		
		WIDTH	mm/in	899 / 35.4		
		DEPTH	mm/in	198 / 7.8		
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3		
		WIDTH	mm/in	957 / 37.7		
		DEPTH	mm/in	270 / 10.6		
	UNIT WEIGHT		kg/lb	12 / 26.46		
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.63		
OUTDOOR UNIT	AIR FLOW		l/s / cfm	1132.8 / 2400		
	SOUND PRESSURE LEVEL		dBA	61 / 58	62 / 59	
	UNIT DIMENSION	HEIGHT	mm/in	631.7 / 24.9		
		WIDTH	mm/in	960.0 / 37.8		
		DEPTH	mm/in	437.0 / 17.2		
	PACKING DIMENSION	HEIGHT	mm/in	824 / 32.4		
		WIDTH	mm/in	1,194 / 47.0		
		DEPTH	mm/in	611 / 24.1		
	UNIT WEIGHT		kg/lb	97 / 213.8	109 / 240.3	
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	3 x 6.35 / 3 x 1/4	
			GAS	mm/in	3 x 9.52 / 3 x 3/8	3 x 12.7 / 3 x 1/2
REFRIGERANT CHARGE			kg/lb	3 x 0.875 / 3 x 1.93	3 x 0.9 / 3 x 1.98	

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

## General Data - Heatpump (R22)

MODEL		OUTDOOR UNIT		MMST101015AR	
		INDOOR UNIT		2 x MWM010GR	MWM015GR
NOMINAL COOLING CAPACITY			Btu/h	30000 (9000 - 30000)	
			W	8800 (2640 - 8800)	
NOMINAL HEATING CAPACITY			Btu/h	29000 (9000 - 29000)	
			W	8500 (2640 - 8500)	
NOMINAL TOTAL INPUT POWER (COOLING)			W	3015	
NOMINAL TOTAL INPUT POWER (HEATING)			W	2698	
NOMINAL RUNNING CURRENT (COOLING)			A	13.59	
NOMINAL RUNNING CURRENT (HEATING)			A	12.31	
EER			W/W	2.92	
COP			W/W	3.15	
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50	
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE	
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)	
		OPERATION		WIRELESS HANDSET	
	AIR FLOW	HIGH	l/s / cfm	141.60 / 300	162.82 / 345
		MEDIUM	l/s / cfm	117.99 / 250	134.51 / 285
		LOW	l/s / cfm	94.39 / 200	103.83 / 220
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	39 / 34 / 28	42 / 36 / 29
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2	
		WIDTH	mm/in	899 / 35.4	
		DEPTH	mm/in	198 / 7.8	
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3	
		WIDTH	mm/in	957 / 37.7	
		DEPTH	mm/in	270 / 10.6	
	UNIT WEIGHT		kg/lb	12 / 26.46	
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.63	
OUTDOOR UNIT	AIR FLOW		l/s / cfm	1132.8 / 2400	
	SOUND PRESSURE LEVEL		dBA	61 / 58	
	UNIT DIMENSION	HEIGHT	mm/in	631.7 / 24.9	
		WIDTH	mm/in	960.0 / 37.8	
		DEPTH	mm/in	437.0 / 17.2	
	PACKING DIMENSION	HEIGHT	mm/in	824 / 32.4	
		WIDTH	mm/in	1,194 / 47.0	
		DEPTH	mm/in	611 / 24.1	
	UNIT WEIGHT		kg/lb	101 / 222.7	
	PIPE CONNECTION	TYPE		FLARE VALVE	
		SIZE	LIQUID	mm/in	3 x 6.35 / 3 x 1/4
GAS			mm/in	2 x 9.52 / 2 x 3/8	12.7 / 1/2
REFRIGERANT CHARGE		kg/lb	2 x 0.875 / 2 x 1.93	0.9 / 1.98	

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.



## General Data - Heatpump (R22)

MODEL		OUTDOOR UNIT		MMST101515AR	
		INDOOR UNIT		MWM010GR	2 x MWM015GR
NOMINAL COOLING CAPACITY			Btu/h	33000 (9000 - 33000)	
			W	9680 (2640 - 9680)	
NOMINAL HEATING CAPACITY			Btu/h	31000 (9000 - 31000)	
			W	9080 (2640 - 9080)	
NOMINAL TOTAL INPUT POWER (COOLING)			W	3486	
NOMINAL TOTAL INPUT POWER (HEATING)			W	3059	
NOMINAL RUNNING CURRENT (COOLING)			A	15.76	
NOMINAL RUNNING CURRENT (HEATING)			A	14.01	
EER			W/W	2.77	
COP			W/W	2.97	
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50	
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE	
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)	
		OPERATION		WIRELESS HANDSET	
	AIR FLOW	HIGH	l/s / cfm	141.60 / 300	162.82 / 345
		MEDIUM	l/s / cfm	117.99 / 250	134.51 / 285
		LOW	l/s / cfm	94.39 / 200	103.83 / 220
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	39 / 34 / 28	42 / 36 / 29
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2	
		WIDTH	mm/in	899 / 35.4	
		DEPTH	mm/in	198 / 7.8	
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3	
		WIDTH	mm/in	957 / 37.7	
		DEPTH	mm/in	270 / 10.6	
	UNIT WEIGHT		kg/lb	12 / 26.46	
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.63	
OUTDOOR UNIT	AIR FLOW		l/s / cfm	1132.8 / 2400	
	SOUND PRESSURE LEVEL		dBA	62 / 59	
	UNIT DIMENSION	HEIGHT	mm/in	631.7 / 24.9	
		WIDTH	mm/in	960.0 / 37.8	
		DEPTH	mm/in	437.0 / 17.2	
	PACKING DIMENSION	HEIGHT	mm/in	824 / 32.4	
		WIDTH	mm/in	1,194 / 47.0	
		DEPTH	mm/in	611 / 24.1	
	UNIT WEIGHT		kg/lb	105 / 231.5	
	PIPE CONNECTION	TYPE		FLARE VALVE	
		SIZE	LIQUID	mm/in	3 x 6.35 / 3 x 1/4
GAS			mm/in	9.52 / 3/8	2 x 12.7 / 2 x 1/2
REFRIGERANT CHARGE		kg/lb	0.875 / 1.93	2 x 0.9 / 2 x 1.98	

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.



## General Data - Cooling Only (R407C)

MODEL		OUTDOOR UNIT		M4MST101010A	M4MST151515A		
		INDOOR UNIT		3 x MWM010G	3 x MWM015G		
NOMINAL CAPACITY			Btu/h	27000 (9000 - 27000)	36000 (12000 - 36000)		
			W	7910 (2640 - 7910)	10550 (3520 - 10550)		
NOMINAL TOTAL INPUT POWER			W	2943 (1236 - 2943)	4182 (1698 - 4182)		
NOMINAL RUNNING CURRENT			A	12.92 (5.42 - 12.92)	18.68 (7.56 - 18.68)		
EER			W/W	2.69	2.52		
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50			
REFRIGERANT TYPE / CONTROL				R407C / CAPILLARY TUBE			
INDOOR UNIT	CONTROL		AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)		
			OPERATION		WIRELESS HANDSET		
	AIR FLOW		HIGH	l/s / cfm	141.60 / 300	162.82 / 345	
			MEDIUM	l/s / cfm	117.99 / 250	134.51 / 285	
			LOW	l/s / cfm	94.39 / 200	103.83 / 220	
	EXTERNAL STATIC PRESSURE (H/M/L)			Pa/in.wg.	N/A		
	SOUND PRESSURE LEVEL (H/M/L)			dBA	39 / 34 / 28	42 / 36 / 29	
	UNIT DIMENSION		HEIGHT	mm/in	260 / 10.2		
			WIDTH	mm/in	899 / 35.4		
			DEPTH	mm/in	198 / 7.8		
	PACKING DIMENSION		HEIGHT	mm/in	337 / 13.3		
			WIDTH	mm/in	957 / 37.7		
			DEPTH	mm/in	270 / 10.6		
	UNIT WEIGHT			kg/lb	12 / 26.46		
	CONDENSATE DRAIN SIZE			mm/in	16 / 0.63		
OUTDOOR UNIT	AIR FLOW		l/s / cfm	1132.8 / 2400			
	SOUND PRESSURE LEVEL		dBA	61 / 58	62 / 59		
	UNIT DIMENSION		HEIGHT	mm/in	631.7 / 24.9		
			WIDTH	mm/in	960.0 / 37.8		
			DEPTH	mm/in	437.0 / 17.2		
	PACKING DIMENSION		HEIGHT	mm/in	824 / 32.4		
			WIDTH	mm/in	1,194 / 47.0		
			DEPTH	mm/in	611 / 24.1		
	UNIT WEIGHT			kg/lb	97 / 213.8	109 / 240.3	
	PIPE CONNECTION		TYPE		FLARE VALVE		
			SIZE	LIQUID	mm/in	3 x 6.35 / 3 x 1/4	
				GAS	mm/in	3 x 9.52 / 3 x 3/8	3 x 12.7 / 3 x 1/2
	REFRIGERANT CHARGE			kg/lb	3 x 0.75 / 3 x 1.65	3 x 0.775 / 3 x 1.71	

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

## General Data - Cooling Only (R407C)

MODEL		OUTDOOR UNIT		M4MST101015A		
		INDOOR UNIT		2 x MWM010G	MWM015G	
NOMINAL CAPACITY			Btu/h	30000 (9000 - 30000)		
			W	8800 (2640 - 8800)		
NOMINAL TOTAL INPUT POWER			W	3356 (1236 - 3356)		
NOMINAL RUNNING CURRENT			A	14.84 (5.42 - 14.84)		
EER			W/W	2.62		
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50		
REFRIGERANT TYPE / CONTROL				R407C / CAPILLARY TUBE		
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)		
		OPERATION		WIRELESS HANDSET		
	AIR FLOW	HIGH	l/s / cfm	141.60 / 300	162.82 / 345	
		MEDIUM	l/s / cfm	117.99 / 250	134.51 / 285	
		LOW	l/s / cfm	94.39 / 200	103.83 / 220	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	39 / 34 / 28	42 / 36 / 29	
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2		
		WIDTH	mm/in	899 / 35.4		
		DEPTH	mm/in	198 / 7.8		
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3		
		WIDTH	mm/in	957 / 37.7		
		DEPTH	mm/in	270 / 10.6		
	UNIT WEIGHT		kg/lb	12 / 26.46		
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.63		
OUTDOOR UNIT	AIR FLOW		l/s / cfm	1132.8 / 2400		
	SOUND PRESSURE LEVEL		dBA	61 / 58		
	UNIT DIMENSION	HEIGHT	mm/in	631.7 / 24.9		
		WIDTH	mm/in	960.0 / 37.8		
		DEPTH	mm/in	437.0 / 17.2		
	PACKING DIMENSION	HEIGHT	mm/in	824 / 32.4		
		WIDTH	mm/in	1,194 / 47.0		
		DEPTH	mm/in	611 / 24.1		
	UNIT WEIGHT		kg/lb	101 / 222.7		
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	3 x 6.35 / 3 x 1/4	
			GAS	mm/in	2 x 9.52 / 2 x 3/8	12.7 / 1/2
	REFRIGERANT CHARGE		kg/lb	2 x 0.75 / 2 x 1.65 0.775 / 1.71		

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

## General Data - Cooling Only (R407C)

MODEL		OUTDOOR UNIT		M4MST101015A			
		INDOOR UNIT		2 x MWM010G	MWM015G		
NOMINAL CAPACITY			Btu/h	30000 (9000 - 30000)			
			W	8800 (2640 - 8800)			
NOMINAL TOTAL INPUT POWER			W	3356 (1236 - 3356)			
NOMINAL RUNNING CURRENT			A	14.84 (5.42 - 14.84)			
EER			W/W	2.62			
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50			
REFRIGERANT TYPE / CONTROL				R407C / CAPILLARY TUBE			
INDOOR UNIT	CONTROL		AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)		
			OPERATION		WIRELESS HANDSET		
	AIR FLOW		HIGH	l/s / cfm	141.60 / 300	162.82 / 345	
			MEDIUM	l/s / cfm	117.99 / 250	134.51 / 285	
			LOW	l/s / cfm	94.39 / 200	103.83 / 220	
	EXTERNAL STATIC PRESSURE (H/M/L)			Pa/in.wg.	N/A		
	SOUND PRESSURE LEVEL (H/M/L)			dBA	39 / 34 / 28	42 / 36 / 29	
	UNIT DIMENSION		HEIGHT	mm/in	260 / 10.2		
			WIDTH	mm/in	899 / 35.4		
			DEPTH	mm/in	198 / 7.8		
	PACKING DIMENSION		HEIGHT	mm/in	337 / 13.3		
			WIDTH	mm/in	957 / 37.7		
			DEPTH	mm/in	270 / 10.6		
	UNIT WEIGHT			kg/lb	12 / 26.46		
	CONDENSATE DRAIN SIZE			mm/in	16 / 0.63		
OUTDOOR UNIT	AIR FLOW		l/s / cfm	1132.8 / 2400			
	SOUND PRESSURE LEVEL		dBA	61 / 58			
	UNIT DIMENSION		HEIGHT	mm/in	631.7 / 24.9		
			WIDTH	mm/in	960.0 / 37.8		
			DEPTH	mm/in	437.0 / 17.2		
	PACKING DIMENSION		HEIGHT	mm/in	824 / 32.4		
			WIDTH	mm/in	1,194 / 47.0		
			DEPTH	mm/in	611 / 24.1		
	UNIT WEIGHT			kg/lb	101 / 222.7		
	PIPE CONNECTION		TYPE		FLARE VALVE		
			SIZE	LIQUID	mm/in	3 x 6.35 / 3 x 1/4	
				GAS	mm/in	2 x 9.52 / 2 x 3/8	12.7 / 1/2
	REFRIGERANT CHARGE			kg/lb	2 x 0.75 / 2 x 1.65	0.775 / 1.71	

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

## General Data - Heatpump (R407C)

MODEL		OUTDOOR UNIT		M4MST101010AR		M4MST151515AR		
		INDOOR UNIT		3 x MWM010GR		3 x MWM015GR		
NOMINAL COOLING CAPACITY			Btu/h	27000 (9000 - 27000)		36000 (12000 - 36000)		
			W	7910 (2640 - 7910)		10550 (3520 - 10550)		
NOMINAL HEATING CAPACITY			Btu/h	27000 (9000 - 27000)		33000 (11000 - 33000)		
			W	7910 (2640 - 7910)		9670 (3220 - 9670)		
NOMINAL TOTAL INPUT POWER (COOLING)			W	2943		4182		
NOMINAL TOTAL INPUT POWER (HEATING)			W	2622		3675		
NOMINAL RUNNING CURRENT (COOLING)			A	12.92		18.68		
NOMINAL RUNNING CURRENT (HEATING)			A	11.72		17.78		
EER			W/W	2.69		2.52		
COP			W/W	3.02		2.63		
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50				
REFRIGERANT TYPE / CONTROL				R407C / CAPILLARY TUBE				
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)				
		OPERATION		WIRELESS HANDSET				
	AIR FLOW	HIGH	l/s / cfm	141.60 / 300		162.82 / 345		
		MEDIUM	l/s / cfm	117.99 / 250		134.51 / 285		
		LOW	l/s / cfm	94.39 / 200		103.83 / 220		
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A				
	SOUND PRESSURE LEVEL (H/M/L)		dBA	39 / 34 / 28		42 / 36 / 29		
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2				
		WIDTH	mm/in	899 / 35.4				
		DEPTH	mm/in	198 / 7.8				
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3				
		WIDTH	mm/in	957 / 37.7				
		DEPTH	mm/in	270 / 10.6				
	UNIT WEIGHT		kg/lb	12 / 26.46				
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.63				
OUTDOOR UNIT	AIR FLOW		l/s / cfm	1132.8 / 2400				
	SOUND PRESSURE LEVEL		dBA	61 / 58		62 / 59		
	UNIT DIMENSION	HEIGHT	mm/in	631.7 / 24.9				
		WIDTH	mm/in	960.0 / 37.8				
		DEPTH	mm/in	437.0 / 17.2				
	PACKING DIMENSION	HEIGHT	mm/in	824 / 32.4				
		WIDTH	mm/in	1,194 / 47.0				
		DEPTH	mm/in	611 / 24.1				
	UNIT WEIGHT		kg/lb	97 / 213.8		109 / 240.3		
	PIPE CONNECTION	TYPE		FLARE VALVE				
		SIZE	LIQUID	mm/in	3 x 6.35 / 3 x 1/4			
			GAS	mm/in	3 x 9.52 / 3 x 3/8		3 x 12.7 / 3 x 1/2	
REFRIGERANT CHARGE			kg/lb	3 x 0.885 / 3 x 1.95		3 x 0.965 / 3 x 2.13		

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.



## General Data - Heatpump (R407C)

MODEL		OUTDOOR UNIT		M4MST101015AR		
		INDOOR UNIT		2 x MWM010GR	MWM015GR	
NOMINAL COOLING CAPACITY			Btu/h	30000 (9000 - 30000)		
			W	8800 (2640 - 8800)		
NOMINAL HEATING CAPACITY			Btu/h	29000 (9000 - 29000)		
			W	8500 (2640 - 8500)		
NOMINAL TOTAL INPUT POWER (COOLING)			W	3356		
NOMINAL TOTAL INPUT POWER (HEATING)			W	2973		
NOMINAL RUNNING CURRENT (COOLING)			A	14.84		
NOMINAL RUNNING CURRENT (HEATING)			A	13.74		
EER			W/W	2.62		
COP			W/W	2.86		
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50		
REFRIGERANT TYPE / CONTROL			R407C / CAPILLARY TUBE			
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)		
		OPERATION		WIRELESS HANDSET		
	AIR FLOW	HIGH	l/s / cfm	141.60 / 300	162.82 / 345	
		MEDIUM	l/s / cfm	117.99 / 250	134.51 / 285	
		LOW	l/s / cfm	94.39 / 200	103.83 / 220	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	39 / 34 / 28	42 / 36 / 29	
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2		
		WIDTH	mm/in	899 / 35.4		
		DEPTH	mm/in	198 / 7.8		
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3		
		WIDTH	mm/in	957 / 37.7		
		DEPTH	mm/in	270 / 10.6		
	UNIT WEIGHT		kg/lb	12 / 26.46		
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.63		
OUTDOOR UNIT	AIR FLOW		l/s / cfm	1132.8 / 2400		
	SOUND PRESSURE LEVEL		dBA	61 / 58		
	UNIT DIMENSION	HEIGHT	mm/in	631.7 / 24.9		
		WIDTH	mm/in	960.0 / 37.8		
		DEPTH	mm/in	437.0 / 17.2		
	PACKING DIMENSION	HEIGHT	mm/in	824 / 32.4		
		WIDTH	mm/in	1,194 / 47.0		
		DEPTH	mm/in	611 / 24.1		
	UNIT WEIGHT		kg/lb	101 / 222.7		
	PIPE CONNECTION	TYPE		FLARE VALVE		
		SIZE	LIQUID	mm/in	3 x 6.35 / 3 x 1/4	
			GAS	mm/in	2 x 9.52 / 2 x 3/8	12.7 / 1/2
REFRIGERANT CHARGE		kg/lb	2 x 0.885 / 2 x 1.95	0.965 / 2.13		

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3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

## General Data - Heatpump (R407C)

MODEL		OUTDOOR UNIT		M4MST101515AR	
		INDOOR UNIT		MWM010GR	2 x MWM015GR
NOMINAL COOLING CAPACITY			Btu/h	33000 (9000 - 33000)	
			W	9680 (2640 - 9680)	
NOMINAL HEATING CAPACITY			Btu/h	31000 (9000 - 31000)	
			W	9080 (2640 - 9080)	
NOMINAL TOTAL INPUT POWER (COOLING)			W	3769	
NOMINAL TOTAL INPUT POWER (HEATING)			W	3324	
NOMINAL RUNNING CURRENT (COOLING)			A	16.76	
NOMINAL RUNNING CURRENT (HEATING)			A	15.76	
EER			W/W	2.57	
COP			W/W	2.73	
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50	
REFRIGERANT TYPE / CONTROL				R407C / CAPILLARY TUBE	
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)	
		OPERATION		WIRELESS HANDSET	
	AIR FLOW	HIGH	l/s / cfm	141.60 / 300	162.82 / 345
		MEDIUM	l/s / cfm	117.99 / 250	134.51 / 285
		LOW	l/s / cfm	94.39 / 200	103.83 / 220
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	39 / 34 / 28	42 / 36 / 29
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2	
		WIDTH	mm/in	899 / 35.4	
		DEPTH	mm/in	198 / 7.8	
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3	
		WIDTH	mm/in	957 / 37.7	
		DEPTH	mm/in	270 / 10.6	
	UNIT WEIGHT		kg/lb	12 / 26.46	
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.63	
OUTDOOR UNIT	AIR FLOW		l/s / cfm	1132.8 / 2400	
	SOUND PRESSURE LEVEL		dBA	62 / 59	
	UNIT DIMENSION	HEIGHT	mm/in	631.7 / 24.9	
		WIDTH	mm/in	960.0 / 37.8	
		DEPTH	mm/in	437.0 / 17.2	
	PACKING DIMENSION	HEIGHT	mm/in	824 / 32.4	
		WIDTH	mm/in	1,194 / 47.0	
		DEPTH	mm/in	611 / 24.1	
	UNIT WEIGHT		kg/lb	105 / 231.5	
	PIPE CONNECTION	TYPE		FLARE VALVE	
		SIZE	LIQUID	mm/in	3 x 6.35 / 3 x 1/4
GAS			mm/in	9.52 / 3/8	2 x 12.7 / 2 x 1/2
REFRIGERANT CHARGE		kg/lb	0.885 / 1.95	2 x 0.965 / 2 x 2.13	

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3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.



## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMST101010A		MMST151515A			
	INDOOR UNIT			3 x MWM010G		3 x MWM015G			
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL					
	QUANTITY			1					
	MATERIAL			ASG30					
	DRIVE			DIRECT					
	DIAMETER		mm/in	97 / 3.82					
	LENGTH		mm/in	717.5 / 28.25					
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR				
QUANTITY			1						
INDEX OF PROTECTION (IP)			IP24						
OUTDOOR FAN	TYPE			PROPELLER					
	QUANTITY			1					
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN					
	DRIVE			DIRECT					
	DIAMETER		mm/in	482.6 / 19					
OUTDOOR FAN MOTOR	TYPE			INDUCTION MOTOR					
	QUANTITY			1					
	INDEX OF PROTECTION (IP)			N/A					
COMPRESSOR	TYPE			ROTARY					
	QUANTITY			3					
	OIL TYPE			ATMOS M60 / SUNISO 4GDID					
	OIL AMOUNT		cm³/fl.oz.	350 / 11.8		410 / 13.9			
	INDOOR COIL	TUBE	MATERIAL		S.I.G.C.				
DIAMETER			mm/in	7 / 0.28					
THICKNESS			mm/in	0.28 / 0.011					
FIN		MATERIAL		ALUMINIUM					
		THICKNESS		mm/in	0.11 / 0.004				
		FACE AREA		m²/ft²	0.193 / 2.08				
		ROW		2					
		FIN PER INCH		18					
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.					
		DIAMETER		mm/in	9.52 / 3/8				
		THICKNESS		mm/in	0.33 / 0.013				
	FIN	MATERIAL		ALUMINIUM					
		THICKNESS		mm/in	0.11 / 0.004				
		FACE AREA		m²/ft²	0.50 / 5.39				
		ROW		3					
		FIN PER INCH		14					
AIR QUALITY	FILTER	TYPE		NANO FILTER					
		QUANTITY		pc	2				
		SIZE	LENGTH		mm/in	304 / 11.9			
			WIDTH		mm/in	348 / 13.7			
			THICKNESS		mm/in	1.5 / 0.06			
	NEGATIVE IONIZER			YES					
	CASING	INDOOR UNIT		MATERIAL	HIPS				
COLOUR				IVORY					
OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL						
		FINISHING	EPOXY-POLYESTER POWDER						
		COLOUR	LIGHT GREY						

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMST101015A	
	INDOOR UNIT			2 x MWM010G	MWM015G
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL	
	QUANTITY			1	
	MATERIAL			ASG30	
	DRIVE			DIRECT	
	DIAMETER		mm/in	97 / 3.82	
	LENGTH		mm/in	717.5 / 28.25	
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR
QUANTITY			1		
INDEX OF PROTECTION (IP)			IP24		
OUTDOOR FAN	TYPE			PROPELLER	
	QUANTITY			1	
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN	
	DRIVE			DIRECT	
	DIAMETER		mm/in	482.6 / 19	
OUTDOOR FAN MOTOR	TYPE			INDUCTION MOTOR	
	QUANTITY			1	
	INDEX OF PROTECTION (IP)			N/A	
COMPRESSOR	TYPE			ROTARY	
	QUANTITY			2	1
	OIL TYPE			ATMOS M60 / SUNISO 4GDID	
	OIL AMOUNT		cm <sup>3</sup> /fl.oz.	350 / 11.8	410 / 13.9
	INDOOR COIL	TUBE	MATERIAL		S.I.G.C.
DIAMETER			mm/in	7 / 0.28	
THICKNESS			mm/in	0.28 / 0.011	
FIN		MATERIAL		ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.004	
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.193 / 2.08	
		ROW		2	
		FIN PER INCH		18	
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.	
		DIAMETER	mm/in	9.52 / 3/8	
		THICKNESS	mm/in	0.33 / 0.013	
	FIN	MATERIAL		ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.004	
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.50 / 5.39	
		ROW		3	
		FIN PER INCH		14	
AIR QUALITY	FILTER	TYPE		NANO FILTER	
		QUANTITY		pc	2
		SIZE	LENGTH	mm/in	304 / 11.9
			WIDTH	mm/in	348 / 13.7
			THICKNESS	mm/in	1.5 / 0.06
	NEGATIVE IONIZER			YES	
	CASING	INDOOR UNIT		MATERIAL	HIPS
COLOUR				IVORY	
OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL		
		FINISHING	EPOXY-POLYESTER POWDER		
		COLOUR	LIGHT GREY		

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMST101515A			
	INDOOR UNIT			MWM010G	2 x MWM015G		
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL			
	QUANTITY			1			
	MATERIAL			ASG30			
	DRIVE			DIRECT			
	DIAMETER		mm/in	97 / 3.82			
	LENGTH		mm/in	717.5 / 28.25			
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR		
QUANTITY			1				
INDEX OF PROTECTION (IP)			IP24				
OUTDOOR FAN	TYPE			PROPELLER			
	QUANTITY			1			
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN			
	DRIVE			DIRECT			
	DIAMETER		mm/in	482.6 / 19			
OUTDOOR FAN MOTOR	TYPE			INDUCTION MOTOR			
	QUANTITY			1			
	INDEX OF PROTECTION (IP)			N/A			
COMPRESSOR	TYPE			ROTARY			
	QUANTITY			1	2		
	OIL TYPE			ATMOS M60 / SUNISO 4GDID			
	OIL AMOUNT		cm <sup>3</sup> /fl.oz.	350 / 11.8	410 / 13.9		
	INDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
DIAMETER			mm/in	7 / 0.28			
THICKNESS			mm/in	0.28 / 0.011			
FIN		MATERIAL		ALUMINIUM			
		THICKNESS	mm/in	0.11 / 0.004			
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.193 / 2.08			
		ROW		2			
		FIN PER INCH		18			
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER			
		DIAMETER	mm/in	9.52 / 3/8			
		THICKNESS	mm/in	0.33 / 0.013			
	FIN	MATERIAL		ALUMINIUM			
		THICKNESS	mm/in	0.11 / 0.004			
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.50 / 5.39			
		ROW		3			
		FIN PER INCH		14			
AIR QUALITY	FILTER	TYPE		NANO FILTER			
		QUANTITY		pc			
		SIZE	LENGTH	mm/in	304 / 11.9		
			WIDTH	mm/in	348 / 13.7		
			THICKNESS	mm/in	1.5 / 0.06		
	NEGATIVE IONIZER			YES			
	CASING	INDOOR UNIT		MATERIAL	HIPS		
COLOUR				IVORY			
OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL				
		FINISHING	EPOXY-POLYESTER POWDER				
		COLOUR	LIGHT GREY				

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## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMST101020A		
	INDOOR UNIT			2 x MWM010G	MWM020G	
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL		
	QUANTITY			1		
	MATERIAL			ASG30		
	DRIVE			DIRECT		
	DIAMETER	mm/in		97 / 3.82	108 / 4.25	
	LENGTH	mm/in		717.5 / 28.25	810 / 31.89	
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR	
QUANTITY			1			
INDEX OF PROTECTION (IP)			IP24	IP20		
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER	mm/in		482.6 / 19		
OUTDOOR FAN MOTOR	TYPE			INDUCTION MOTOR		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			2	1	
	OIL TYPE			ATMOS M60 / SUNISO 4GDID		
	OIL AMOUNT	cm³/fl.oz.		350 / 11.8	700 / 23.7	
	INDOOR COIL	TUBE	MATERIAL		S.I.G.C.	
DIAMETER			mm/in	7 / 0.28		
THICKNESS			mm/in	0.28 / 0.011		
FIN		MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m²/ft²	0.193 / 2.08	0.224 / 2.411	
		ROW		2		
		FIN PER INCH		18		
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m²/ft²	0.50 / 5.39		
		ROW		3		
		FIN PER INCH		14		
AIR QUALITY	FILTER	TYPE		NANO FILTER		
		QUANTITY		2		
		SIZE	LENGTH	mm/in	304 / 11.97	351 / 13.82
			WIDTH	mm/in	348 / 13.70	386 / 15.20
			THICKNESS	mm/in	1.5 / 0.06	
	NEGATIVE IONIZER			YES		
CASING	INDOOR UNIT	MATERIAL	HIPS			
		COLOUR	IVORY			
	OUTDOOR UNIT	MATERIAL	GALVANISED MILD STEEL			
		FINISHING	EPOXY-POLYESTER POWDER			
		COLOUR	LIGHT GREY			

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.



## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMST101025A		
	INDOOR UNIT			2 x MWM010G	MWM025G	
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL		
	QUANTITY			1		
	MATERIAL			ASG30		
	DRIVE			DIRECT		
	DIAMETER	mm/in		97 / 3.82	108 / 4.25	
	LENGTH	mm/in		717.5 / 28.25	810 / 31.89	
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR	
QUANTITY			1			
INDEX OF PROTECTION (IP)			IP24	IP20		
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER	mm/in		482.6 / 19		
OUTDOOR FAN MOTOR	TYPE			INDUCTION MOTOR		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			2	1	
	OIL TYPE			ATMOS M60 / SUNISO 4GDID		
	OIL AMOUNT	cm <sup>3</sup> /fl.oz.		350 / 11.8	1130 / 38.2	
	INDOOR COIL	TUBE	MATERIAL		S.I.G.C.	
DIAMETER			mm/in	7 / 0.28		
THICKNESS			mm/in	0.28 / 0.011		
FIN		MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.193 / 2.08	0.224 / 2.411	
		ROW		2		
		FIN PER INCH		18		
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.87 / 9.33		
		ROW		3		
		FIN PER INCH		14		
AIR QUALITY	FILTER	TYPE		NANO FILTER		
		QUANTITY		2		
		SIZE	LENGTH	mm/in	304 / 11.97	351 / 13.82
			WIDTH	mm/in	348 / 13.70	386 / 15.20
			THICKNESS	mm/in	1.5 / 0.06	
	NEGATIVE IONIZER			YES		
CASING	INDOOR UNIT	MATERIAL	HIPS			
		COLOUR	IVORY			
	OUTDOOR UNIT	MATERIAL	GALVANISED MILD STEEL			
		FINISHING	EPOXY-POLYESTER POWDER			
		COLOUR	LIGHT GREY			

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMST151525A		
	INDOOR UNIT			2 x MWM015G	MWM025G	
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL		
	QUANTITY			1		
	MATERIAL			ASG30		
	DRIVE			DIRECT		
	DIAMETER	mm/in		97 / 3.82	108 / 4.25	
	LENGTH	mm/in		717.5 / 28.25	810 / 31.89	
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR	
QUANTITY			1			
INDEX OF PROTECTION (IP)			IP24	IP20		
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER	mm/in		482.6 / 19		
OUTDOOR FAN MOTOR	TYPE			INDUCTION MOTOR		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			2	1	
	OIL TYPE			ATMOS M60 / SUNISO 4GDID		
	OIL AMOUNT	cm <sup>3</sup> /fl.oz.		410 / 13.9	1130 / 38.2	
	INDOOR COIL	TUBE	MATERIAL		S.I.G.C.	
DIAMETER			mm/in	7 / 0.28		
THICKNESS			mm/in	0.28 / 0.011		
FIN		MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.193 / 2.08	0.224 / 2.411	
		ROW		2		
		FIN PER INCH		18		
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.87 / 9.33		
		ROW		3		
		FIN PER INCH		14		
AIR QUALITY	FILTER	TYPE		NANO FILTER		
		QUANTITY		2		
		SIZE	LENGTH	mm/in	304 / 11.97	351 / 13.82
			WIDTH	mm/in	348 / 13.70	386 / 15.20
			THICKNESS	mm/in	1.5 / 0.06	
	NEGATIVE IONIZER			YES		
CASING	INDOOR UNIT	MATERIAL	HIPS			
		COLOUR	IVORY			
	OUTDOOR UNIT	MATERIAL	GALVANISED MILD STEEL			
		FINISHING	EPOXY-POLYESTER POWDER			
		COLOUR	LIGHT GREY			

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.



## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMST101520A			
	INDOOR UNIT			MWM010G	MWM015G	MWM020G	
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL			
	QUANTITY			1			
	MATERIAL			ASG30			
	DRIVE			DIRECT			
	DIAMETER	mm/in		97 / 3.82		108 / 4.25	
	LENGTH	mm/in		717.5 / 28.25		810 / 31.89	
INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR			
	QUANTITY			1			
	INDEX OF PROTECTION (IP)			IP24		IP20	
OUTDOOR FAN	TYPE			PROPELLER			
	QUANTITY			1			
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN			
	DRIVE			DIRECT			
	DIAMETER	mm/in		609.6 / 24			
OUTDOOR FAN MOTOR	TYPE			INDUCTION MOTOR			
	QUANTITY			1			
	INDEX OF PROTECTION (IP)			N/A			
COMPRESSOR	TYPE			ROTARY			
	QUANTITY			1	1	1	
	OIL TYPE			ATMOS M60 / SUNISO 4GDID			
	OIL AMOUNT	cm <sup>3</sup> /fl.oz.		350 / 11.8	410 / 13.9	700 / 23.7	
	INDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
DIAMETER			mm/in	7 / 0.28			
THICKNESS			mm/in	0.28 / 0.011			
FIN		MATERIAL		ALUMINIUM			
		THICKNESS	mm/in	0.11 / 0.004			
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.193 / 2.08		0.224 / 2.411	
		ROW		2			
		FIN PER INCH		18			
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER			
		DIAMETER	mm/in	9.52 / 3/8			
		THICKNESS	mm/in	0.33 / 0.013			
	FIN	MATERIAL		ALUMINIUM			
		THICKNESS	mm/in	0.11 / 0.004			
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.87 / 9.33			
		ROW		2			
		FIN PER INCH		16			
AIR QUALITY	FILTER	TYPE		NANO FILTER			
		QUANTITY		2			
		SIZE	LENGTH	mm/in	304 / 11.97		351 / 13.82
			WIDTH	mm/in	348 / 13.70		386 / 15.20
			THICKNESS	mm/in	1.5 / 0.06		
	NEGATIVE IONIZER			YES			
	CASING	INDOOR UNIT		MATERIAL	HIPS		
COLOUR				IVORY			
OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL				
		FINISHING	EPOXY-POLYESTER POWDER				
		COLOUR	LIGHT GREY				

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMST101525A			
	INDOOR UNIT			MWM010G	MWM015G	MWM025G	
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL			
	QUANTITY			1			
	MATERIAL			ASG30			
	DRIVE			DIRECT			
	DIAMETER	mm/in		97 / 3.82		108 / 4.25	
	LENGTH	mm/in		717.5 / 28.25		810 / 31.89	
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR		
QUANTITY			1				
INDEX OF PROTECTION (IP)			IP24		IP20		
OUTDOOR FAN	TYPE			PROPELLER			
	QUANTITY			1			
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN			
	DRIVE			DIRECT			
	DIAMETER	mm/in		609.6 / 24			
OUTDOOR FAN MOTOR	TYPE			INDUCTION MOTOR			
	QUANTITY			1			
	INDEX OF PROTECTION (IP)			N/A			
COMPRESSOR	TYPE			ROTARY			
	QUANTITY			1	1	1	
	OIL TYPE			ATMOS M60 / SUNISO 4GDID			
	OIL AMOUNT	cm <sup>3</sup> /fl.oz.		350 / 11.8	410 / 13.9	1130 / 38.2	
INDOOR COIL	TUBE	MATERIAL		S.I.G.C.			
		DIAMETER	mm/in	7 / 0.28			
		THICKNESS	mm/in	0.28 / 0.011			
	FIN	MATERIAL		ALUMINIUM			
		THICKNESS	mm/in	0.11 / 0.004			
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.193 / 2.08		0.224 / 2.411	
		ROW		2			
		FIN PER INCH		18			
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER			
		DIAMETER	mm/in	9.52 / 3/8			
		THICKNESS	mm/in	0.33 / 0.013			
	FIN	MATERIAL		ALUMINIUM			
		THICKNESS	mm/in	0.11 / 0.004			
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.87 / 9.33			
		ROW		2			
		FIN PER INCH		16			
AIR QUALITY	FILTER	TYPE		NANO FILTER			
		QUANTITY		2			
		SIZE	LENGTH	mm/in	304 / 11.97		351 / 13.82
			WIDTH	mm/in	348 / 13.70		386 / 15.20
			THICKNESS	mm/in	1.5 / 0.06		
	NEGATIVE IONIZER			YES			
	CASING	INDOOR UNIT		MATERIAL	HIPS		
COLOUR				IVORY			
OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL				
		FINISHING	EPOXY-POLYESTER POWDER				
		COLOUR	LIGHT GREY				

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## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMST151520A		
	INDOOR UNIT			2 x MWM015G	MWM020G	
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL		
	QUANTITY			1		
	MATERIAL			ASG30	ASG30	
	DRIVE			DIRECT		
	DIAMETER	mm/in		97 / 3.82	108 / 4.25	
	LENGTH	mm/in		717.5 / 28.25	810 / 31.89	
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR	
QUANTITY			1			
INDEX OF PROTECTION (IP)			IP24	IP20		
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER	mm/in		482.6 / 19		
OUTDOOR FAN MOTOR	TYPE			SINGLE PHASE INDUCTION		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			2	1	
	OIL TYPE			ATMOS M60 / SUNISO 4GDID		
	OIL AMOUNT	cm³/fl.oz.		410 / 13.9	700 / 23.7	
	INDOOR COIL	TUBE	MATERIAL		S.I.G.C.	
DIAMETER			mm/in	7 / 0.28		
THICKNESS			mm/in	0.28 / 0.011		
FIN		MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m²/ft²	0.193 / 2.08	0.224 / 2.411	
		ROW		2		
		FIN PER INCH		18		
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m²/ft²	0.87 / 9.33		
		ROW		3		
		FIN PER INCH		14		
AIR QUALITY	FILTER	TYPE		NANO FILTER		
		QUANTITY		2		
		SIZE	LENGTH	mm/in	304 / 11.97	351 / 13.82
			WIDTH	mm/in	348 / 13.74	386 / 15.23
			THICKNESS	mm/in	1.5 / 0.06	
	NEGATIVE IONIZER			YES		
CASING	INDOOR UNIT	MATERIAL	HIPS			
		COLOUR	IVORY			
	OUTDOOR UNIT	MATERIAL	GALVANISED MILD STEEL			
		FINISHING	EPOXY-POLYESTER POWDER			
		COLOUR	LIGHT GREY			

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## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMST101010A	MMST151515A	
	INDOOR UNIT			3 x MCC010C	3 x MCC015C	
INDOOR FAN	TYPE			CENTRIFUGAL		
	QUANTITY			1	2	
	MATERIAL			GALVANIZED STEEL		
	DRIVE			DIRECT		
	DIAMETER	mm/in		160 / 6.30		
	LENGTH	mm/in		202 / 7.95		
	INDOOR FAN MOTOR	TYPE			INDUCTION	
QUANTITY			1			
INDEX OF PROTECTION (IP)			N/A			
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRYL STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER	mm/in		482.6 / 19		
OUTDOOR FAN MOTOR	TYPE			INDUCTION		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			3		
	OIL TYPE			ATMOS M60 / SUNISO 4GDID		
	OIL AMOUNT	cm³/fl.oz.		350 / 11.8	410 / 13.9	
INDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER		
		DIAMETER	mm/in	9.52 / %		
		THICKNESS	mm/in	0.35 / 0.014		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.0043		
		FACE AREA	m²/ft²	0.115 / 1.238	0.143 / 1.524	
		ROW		3	3	
		FIN PER INCH		12	14	
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C		
		DIAMETER	mm/in	9.52 / %		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.0043		
		FACE AREA	m²/ft²	0.50 / 5.39		
		ROW		2		
		FIN PER INCH		14		
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER		
		QUANTITY	pc	1		
		SIZE	LENGTH	mm/in	560 / 22.05	700 / 27.56
			WIDTH	mm/in	195 / 7.68	
			THICKNESS	mm/in	5 / 0.20	
	NEGATIVE IONIZER			GALVANIZED STEEL		
	CASING	INDOOR UNIT	MATERIAL	WITH PE INSULATION		
COLOUR			WITHOUT POWDER PAINT			
OUTDOOR UNIT		MATERIAL	GALVANIZED STEEL			
		FINISHING	EPOXY-POLYESTER POWDER			
		COLOUR	LIGHT GREY			

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## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMST101015A		
	INDOOR UNIT			2 x MCC010C	MCC015C	
INDOOR FAN	TYPE			CENTRIFUGAL		
	QUANTITY			1	2	
	MATERIAL			GALVANIZED STEEL		
	DRIVE			DIRECT		
	DIAMETER		mm/in	160 / 6.30		
	LENGTH		mm/in	202 / 7.95		
	INDOOR FAN MOTOR	TYPE			INDUCTION	
QUANTITY			1			
INDEX OF PROTECTION (IP)			N/A			
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER		mm/in	482.6 / 19		
OUTDOOR FAN MOTOR	TYPE			INDUCTION		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			2	1	
	OIL TYPE			ATMOS M60 / SUNISO 4GDID		
	OIL AMOUNT		cm³/fl.oz.	350 / 11.8	410 / 13.9	
INDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER		
		DIAMETER	mm/in	9.52 / ¾		
		THICKNESS	mm/in	0.35 / 0.014		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.0043		
		FACE AREA	m²/ft²	0.115 / 1.238	0.143 / 1.524	
		ROW		3		
		FIN PER INCH		12	14	
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m²/ft²	0.50 / 5.39		
		ROW		2		
		FIN PER INCH		14		
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER		
		QUANTITY		1		
		SIZE	LENGTH	mm/in	560 / 22.05	700 / 27.56
			WIDTH	mm/in	195 / 7.68	
			THICKNESS	mm/in	5 / 0.20	
	NEGATIVE IONIZER			GALVANIZED STEEL		
CASING	INDOOR UNIT		MATERIAL	WITH PE INSULATION		
			COLOUR	WITHOUT POWDER PAINT		
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL		
			FINISHING	EPOXY-POLYESTER POWDER		
			COLOUR	LIGHT GREY		

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## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMST101515A		
	INDOOR UNIT			MCC010C	2 x MCC015C	
INDOOR FAN	TYPE			CENTRIFUGAL		
	QUANTITY			1	2	
	MATERIAL			GALVANIZED STEEL		
	DRIVE			DIRECT		
	DIAMETER		mm/in	160 / 6.30		
	LENGTH		mm/in	202 / 7.95		
	INDOOR FAN MOTOR	TYPE			INDUCTION	
QUANTITY			1			
INDEX OF PROTECTION (IP)			N/A			
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER		mm/in	482.6 / 19		
OUTDOOR FAN MOTOR	TYPE			INDUCTION		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			1	2	
	OIL TYPE			ATMOS M60 / SUNISO 4GDID		
	OIL AMOUNT		cm³/fl.oz.	350 / 11.8	410 / 13.9	
	INDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER	
DIAMETER			mm/in	9.52 / ¾		
THICKNESS			mm/in	0.35 / 0.014		
FIN		MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.0043		
		FACE AREA	m²/ft²	0.115 / 1.238	0.143 / 1.524	
		ROW		3		
		FIN PER INCH		12	14	
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m²/ft²	0.50 / 5.39		
		ROW		2		
		FIN PER INCH		14		
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER		
		QUANTITY		1		
		SIZE	LENGTH	mm/in	560 / 22.05	700 / 27.56
			WIDTH	mm/in	195 / 7.68	
			THICKNESS	mm/in	5 / 0.20	
	NEGATIVE IONIZER			GALVANIZED STEEL		
	CASING	INDOOR UNIT		MATERIAL	WITH PE INSULATION	
COLOUR				WITHOUT POWDER PAINT		
OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL			
		FINISHING	EPOXY-POLYESTER POWDER			
		COLOUR	LIGHT GREY			

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## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMST101020A		
	INDOOR UNIT			2x MCC010C	MCC020C	
INDOOR FAN	TYPE			CENTRIFUGAL		
	QUANTITY			1	2	
	MATERIAL			GALVANIZED STEEL		
	DRIVE			DIRECT		
	DIAMETER		mm/in	160 / 6.30		
	LENGTH		mm/in	202 / 7.95		
	INDOOR FAN MOTOR	TYPE			INDUCTION	
QUANTITY			1	2		
INDEX OF PROTECTION (IP)			N/A			
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER		mm/in	482.6 / 19		
OUTDOOR FAN MOTOR	TYPE			INDUCTION		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			2	1	
	OIL TYPE			ATMOS M60 / SUNISO 4GDID		
	OIL AMOUNT		cm³/fl.oz.	350 / 11.8	700 / 23.7	
INDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER		
		DIAMETER	mm/in	9.52 / ¾		
		THICKNESS	mm/in	0.35 / 0.014		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.0043		
		FACE AREA	m²/ft²	0.115 / 1.238	0.143 / 1.525	
		ROW		3	4	
		FIN PER INCH		12	12	
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m²/ft²	0.50 / 5.39		
		ROW		3		
		FIN PER INCH		14		
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER		
		QUANTITY		1		
		SIZE	LENGTH	mm/in	560 / 22.05	860 / 33.86
			WIDTH	mm/in	195 / 7.68	
			THICKNESS	mm/in	5 / 0.20	
	NEGATIVE IONIZER			GALVANIZED STEEL		
CASING	INDOOR UNIT		MATERIAL	WITH PE INSULATION		
			COLOUR	WITHOUT POWDER PAINT		
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL		
			FINISHING	EPOXY-POLYESTER POWDER		
			COLOUR	LIGHT GREY		

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## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMST101025A		
	INDOOR UNIT			2x MCC010C	MCC025C	
INDOOR FAN	TYPE			CENTRIFUGAL		
	QUANTITY			1	2	
	MATERIAL			GALVANIZED STEEL		
	DRIVE			DIRECT		
	DIAMETER		mm/in	160 / 6.30		
	LENGTH		mm/in	202 / 7.95		
	INDOOR FAN MOTOR	TYPE			INDUCTION	
QUANTITY			1			
INDEX OF PROTECTION (IP)			N/A			
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER		mm/in	482.6 / 19		
OUTDOOR FAN MOTOR	TYPE			INDUCTION		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			2	1	
	OIL TYPE			ATMOS M60 / SUNISO 4GDID		
	OIL AMOUNT		cm³/fl.oz.	350 / 11.8	1130 / 38.2	
INDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER		
		DIAMETER	mm/in	9.52 / ¾		
		THICKNESS	mm/in	0.35 / 0.014		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.0043		
		FACE AREA	m²/ft²	0.115 / 1.238	0.203 / 2.187	
		ROW		3	3	
		FIN PER INCH		12	12	
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m²/ft²	0.87 / 9.33		
		ROW		3		
		FIN PER INCH		14		
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER		
		QUANTITY		1		
		SIZE	LENGTH	mm/in	560 / 22.05	995 / 39.17
			WIDTH	mm/in	195 / 7.68	
			THICKNESS	mm/in	5 / 0.20	
	NEGATIVE IONIZER			GALVANIZED STEEL		
CASING	INDOOR UNIT	MATERIAL	WITH PE INSULATION			
		COLOUR	WITHOUT POWDER PAINT			
	OUTDOOR UNIT	MATERIAL	GALVANISED MILD STEEL			
		FINISHING	EPOXY-POLYESTER POWDER			
		COLOUR	LIGHT GREY			

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMST151525A		
	INDOOR UNIT			2 x MCC015C	MCC025C	
INDOOR FAN	TYPE			CENTRIFUGAL		
	QUANTITY			2		
	MATERIAL			GALVANIZED STEEL		
	DRIVE			DIRECT		
	DIAMETER		mm/in	160 / 6.30		
	LENGTH		mm/in	203 / 7.95		
	INDOOR FAN MOTOR	TYPE			INDUCTION	
QUANTITY			1			
INDEX OF PROTECTION (IP)			N/A			
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER		mm/in	482.6 / 19		
OUTDOOR FAN MOTOR	TYPE			INDUCTION		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			2	1	
	OIL TYPE			ATMOS M60 / SUNISO 4GDID		
	OIL AMOUNT		cm³/fl.oz.	410 / 13.9	1130 / 38.2	
INDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER		
		DIAMETER	mm/in	9.52 / ¾		
		THICKNESS	mm/in	0.35 / 0.015		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.0044		
		FACE AREA	m²/ft²	0.143 / 1.524	0.203 / 2.187	
		ROW		3	3	
		FIN PER INCH		14	12	
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m²/ft²	0.87 / 9.33		
		ROW		3		
		FIN PER INCH		14		
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER		
		QUANTITY	pc	1		
		SIZE	LENGTH	mm/in	700 / 27.56	995 / 39.17
			WIDTH	mm/in	195 / 7.68	
			THICKNESS	mm/in	5 / 0.20	
	NEGATIVE IONIZER			GALVANIZED STEEL		
CASING	INDOOR UNIT	MATERIAL	WITH PE INSULATION			
		COLOUR	WITHOUT POWDER PAINT			
	OUTDOOR UNIT	MATERIAL	GALVANISED MILD STEEL			
		FINISHING	EPOXY-POLYESTER POWDER			
		COLOUR	LIGHT GREY			

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.  
2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMST101525A			
	INDOOR UNIT			MCC010C	MCC015C	MCC025C	
INDOOR FAN	TYPE			CENTRIFUGAL			
	QUANTITY			1	2		
	MATERIAL			GALVANIZED STEEL			
	DRIVE			DIRECT			
	DIAMETER	mm/in		160 / 6.30			
	LENGTH	mm/in		202 / 7.95			
INDOOR FAN MOTOR	TYPE			INDUCTION			
	QUANTITY			1			
	INDEX OF PROTECTION (IP)			N/A			
OUTDOOR FAN	TYPE			PROPELLER			
	QUANTITY			1			
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN			
	DRIVE			DIRECT			
	DIAMETER	mm/in		609.6 / 24			
OUTDOOR FAN MOTOR	TYPE			INDUCTION			
	QUANTITY			1			
	INDEX OF PROTECTION (IP)			N/A			
COMPRESSOR	TYPE			ROTARY			
	QUANTITY			1			
	OIL TYPE			ATMOS M60 / SUNISO 4GDID			
	OIL AMOUNT	cm <sup>3</sup> /fl.oz.		350 / 11.8	410 / 13.9	1130 / 38.2	
INDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER			
		DIAMETER	mm/in	9.52 / ¾			
		THICKNESS	mm/in	0.35 / 0.014			
	FIN	MATERIAL		ALUMINIUM			
		THICKNESS	mm/in	0.11 / 0.0043			
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.115 / 1.238	0.143 / 1.524	0.203 / 2.187	
		ROW		3			
		FIN PER INCH		12	14	12	
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER			
		DIAMETER	mm/in	9.52 / 3/8			
		THICKNESS	mm/in	0.33 / 0.013			
	FIN	MATERIAL		ALUMINIUM			
		THICKNESS	mm/in	0.11 / 0.004			
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.87 / 9.33			
		ROW		3			
		FIN PER INCH		16			
AIR QUALITY	FILTER	TYPE		WASHABLE SARANET FILTER			
		QUANTITY		1			
		SIZE	LENGTH	mm/in	560 / 22.05	700 / 27.56	995 / 39.17
			WIDTH	mm/in	195 / 7.68		
			THICKNESS	mm/in	5 / 0.20		
	NEGATIVE IONIZER			GALVANIZED STEEL			
CASING	INDOOR UNIT		MATERIAL	WITH PE INSULATION			
			COLOUR	WITHOUT POWDER PAINT			
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL			
			FINISHING	EPOXY-POLYESTER POWDER			
			COLOUR	LIGHT GREY			

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

## Components Data - Cooling Only (R22)

MODEL	INDOOR UNIT			MMST101010A	MMST151515A
	OUTDOOR UNIT			3 x MCK010C	3 x MCK015C
INDOOR FAN	TYPE			TURBO FAN	
	Q'TY			1	
	MATERIAL			ASG20	
	DRIVE			DIRECT	
	DIAMETER		mm/in	330 / 13.0	
	LENGTH		mm/in	178 / 7.0	
INDOOR FAN MOTOR	TYPE			INDUCTION	
	Q'TY			1	
	INDEX OF PROTECTION (IP)			N/A	
OUTDOOR FAN	TYPE			PROPELLER	
	Q'TY			1	
	MATERIAL			GLASS REINFORCED ACRYL STYRENE RESIN	
	DRIVE			DIRECT	
	DIAMETER		mm/in	482.6 / 19	
OUTDOOR FAN MOTOR	TYPE			INDUCTION	
	Q'TY			1	
	INDEX OF PROTECTION (IP)			N/A	
COMPRESSOR	TYPE			ROTARY	
	QUANTITY			3	
	OIL TYPE			ATMOS M60 / SUNISO 4GDID	
	OIL AMOUNT		cm <sup>3</sup>	350 / 11.8	410 / 13.9
INDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER	
		DIAMETER	mm/in	7.00 / 0.28	
		THICKNESS	mm/in	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.0043	
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.318 / 3.42	
		ROW		1	2
		FIN PER INCH		20	20
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C	
		DIAMETER	mm/in	9.52 / 3/8	
		THICKNESS	mm/in	0.33 / 0.013	
	FIN	MATERIAL		ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.0043	
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.50 / 5.39	
		ROW		2	
		FIN PER INCH		14	
FILTRATION	TYPE			WASHABLE SARANET FILTER	
	QUANTITY		pc	1	
	DIMENSION	LENGTH	mm / in	367.5 / 14.5	
		WIDTH	mm / in	381.0 / 15.0	
		THICKNESS	mm / in	20.8 / 0.8	
CASING	PANEL		MATERIAL	ABS	
			FINISHING	N/A	
			COLOUR	LIGHT GREY	
	INDOOR UNIT		MATERIAL	GALVANIZED STEEL	
			FINISHING	WITH PE INSULATION	
			COLOUR	WITHOUT POWDER PAINT	
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL	
			FINISHING	EPOXY-POLYESTER POWDER	
			COLOUR	LIGHT GREY	

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

## Components Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MMST101015A	
	OUTDOOR UNIT		2 x MCK010C	MCK015C
INDOOR FAN	TYPE		TURBO FAN	
	Q'TY		1	
	MATERIAL		ASG20	
	DRIVE		DIRECT	
	DIAMETER	mm/in	330 / 13.0	
	LENGTH	mm/in	178 / 7.0	
INDOOR FAN MOTOR	TYPE		INDUCTION	
	Q'TY		1	
	INDEX OF PROTECTION (IP)		N/A	
OUTDOOR FAN	TYPE		PROPELLER	
	Q'TY		1	
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN	
	DRIVE		DIRECT	
	DIAMETER	mm/in	482.6 / 19	
OUTDOOR FAN MOTOR	TYPE		INDUCTION	
	Q'TY		1	
	INDEX OF PROTECTION (IP)		N/A	
COMPRESSOR	TYPE		ROTARY	
	QUANTITY		2	1
	OIL TYPE		ATMOS M60 / SUNISO 4GDID	
	OIL AMOUNT	cm <sup>3</sup>	350 / 11.8	410 / 13.9
INDOOR COIL	TUBE	MATERIAL	SEAMLESS COPPER	
		DIAMETER	mm/in	7.00 / 0.28
		THICKNESS	mm/in	0.28 / 0.011
	FIN	MATERIAL	ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.0043
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.318 / 3.42
		ROW	1	2
		FIN PER INCH	20	20
OUTDOOR COIL	TUBE	MATERIAL	S.I.G.C	
		DIAMETER	mm/in	9.52 / 3/8
		THICKNESS	mm/in	0.33 / 0.013
	FIN	MATERIAL	ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.004
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.50 / 5.39
		ROW	2	
		FIN PER INCH	14	
FILTRATION	TYPE		WASHABLE SARANET FILTER	
	QUANTITY		pc	1
	DIMENSION	LENGTH	mm / in	367.5 / 14.5
		WIDTH	mm / in	381.0 / 15.0
		THICKNESS	mm / in	20.8 / 0.8
CASING	PANEL	MATERIAL	ABS	
		FINISHING	N/A	
		COLOUR	LIGHT GREY	
	INDOOR UNIT	MATERIAL	GALVANIZED STEEL	
		FINISHING	WITH PE INSULATION	
		COLOUR	WITHOUT POWDER PAINT	
	OUTDOOR UNIT	MATERIAL	GALVANISED MILD STEEL	
		FINISHING	EPOXY-POLYESTER POWDER	
		COLOUR	LIGHT GREY	

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.



## Components Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MMST101515A	
	OUTDOOR UNIT		MCK010C	2 x MCK015C
INDOOR FAN	TYPE		TURBO FAN	
	Q'TY		1	
	MATERIAL		ASG20	
	DRIVE		DIRECT	
	DIAMETER	mm/in	330 / 13.0	
	LENGTH	mm/in	178 / 7.0	
INDOOR FAN MOTOR	TYPE		INDUCTION	
	Q'TY		1	
	INDEX OF PROTECTION (IP)		N/A	
OUTDOOR FAN	TYPE		PROPELLER	
	Q'TY		1	
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN	
	DRIVE		DIRECT	
	DIAMETER	mm/in	482.6 / 19	
OUTDOOR FAN MOTOR	TYPE		INDUCTION	
	Q'TY		1	
	INDEX OF PROTECTION (IP)		N/A	
COMPRESSOR	TYPE		ROTARY	
	QUANTITY		1	2
	OIL TYPE		ATMOS M60 / SUNISO 4GDID	
	OIL AMOUNT	cm <sup>3</sup>	350 / 11.8	410 / 13.9
INDOOR COIL	TUBE	MATERIAL	SEAMLESS COPPER	
		DIAMETER	mm/in	7.00 / 0.28
		THICKNESS	mm/in	0.28 / 0.011
	FIN	MATERIAL	ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.0043
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.318 / 3.42
		ROW	1	2
		FIN PER INCH	20	20
OUTDOOR COIL	TUBE	MATERIAL	S.I.G.C	
		DIAMETER	mm/in	9.52 / 3/8
		THICKNESS	mm/in	0.33 / 0.013
	FIN	MATERIAL	ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.004
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.50 / 5.39
		ROW	2	
		FIN PER INCH	14	
FILTRATION	TYPE		WASHABLE SARANET FILTER	
	QUANTITY		pc	1
	DIMENSION	LENGTH	mm / in	367.5 / 14.5
		WIDTH	mm / in	381.0 / 15.0
		THICKNESS	mm / in	20.8 / 0.8
CASING	PANEL	MATERIAL	ABS	
		FINISHING	N/A	
		COLOUR	LIGHT GREY	
	INDOOR UNIT	MATERIAL	GALVANIZED STEEL	
		FINISHING	WITH PE INSULATION	
		COLOUR	WITHOUT POWDER PAINT	
	OUTDOOR UNIT	MATERIAL	GALVANISED MILD STEEL	
		FINISHING	EPOXY-POLYESTER POWDER	
		COLOUR	LIGHT GREY	

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

## Components Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MMST101020A	
	OUTDOOR UNIT		2x MCK010C	MCK020C
INDOOR FAN	TYPE		TURBO FAN	
	Q'TY		1	
	MATERIAL		ASG20	
	DRIVE		DIRECT	
	DIAMETER	mm/in	330 / 13.00	
	LENGTH	mm/in	178 / 7.00	
INDOOR FAN MOTOR	TYPE		INDUCTION	
	Q'TY		1	
	INDEX OF PROTECTION (IP)		N/A	
OUTDOOR FAN	TYPE		PROPELLER	
	Q'TY		1	
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN	
	DRIVE		DIRECT	
	DIAMETER	mm/in	482.6 / 19	
OUTDOOR FAN MOTOR	TYPE		INDUCTION	
	Q'TY		1	
	INDEX OF PROTECTION (IP)		N/A	
COMPRESSOR	TYPE		ROTARY	
	QUANTITY		2	1
	OIL TYPE		ATMOS M60 / SUNISO 4GDID	
	OIL AMOUNT	cm <sup>3</sup>	350 / 11.8	700 / 23.7
INDOOR COIL	TUBE	MATERIAL	SEAMLESS COPPER	
		DIAMETER	mm/in	7.00 / 0.28
		THICKNESS	mm/in	0.28 / 0.011
	FIN	MATERIAL	ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.0043
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.318 / 3.42
		ROW	1	2
		FIN PER INCH	20	20
OUTDOOR COIL	TUBE	MATERIAL	S.I.G.C	
		DIAMETER	mm/in	9.52 / 3/8
		THICKNESS	mm/in	0.33 / 0.013
	FIN	MATERIAL	ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.004
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.50 / 5.39
		ROW	3	
		FIN PER INCH	14	
FILTRATION	TYPE		WASHABLE SARANET FILTER	
	QUANTITY		pc	1
	DIMENSION	LENGTH	mm / in	367.5 / 14.5
		WIDTH	mm / in	381.0 / 15.0
		THICKNESS	mm / in	20.8 / 0.8
CASING	PANEL	MATERIAL	ABS	
		FINISHING	N/A	
		COLOUR	LIGHT GREY	
	INDOOR UNIT	MATERIAL	GALVANIZED STEEL	
		FINISHING	WITH PE INSULATION	
		COLOUR	WITHOUT POWDER PAINT	
	OUTDOOR UNIT	MATERIAL	GALVANISED MILD STEEL	
		FINISHING	EPOXY-POLYESTER POWDER	
		COLOUR	LIGHT GREY	

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

## Components Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MMST101025A	
	OUTDOOR UNIT		2x MCK010C	MCK025A
INDOOR FAN	TYPE		TURBO FAN	
	Q'TY		1	
	MATERIAL			
	DRIVE		DIRECT	
	DIAMETER	mm/in	330 / 13.0	450 / 17.72
	LENGTH	mm/in	178 / 7.0	170 / 6.67
INDOOR FAN MOTOR	TYPE		INDUCTION	
	Q'TY		1	
	INDEX OF PROTECTION (IP)		IP22	
OUTDOOR FAN	TYPE		PROPELLER	
	Q'TY		1	
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN	
	DRIVE		DIRECT	
	DIAMETER	mm/in	482.6 / 19	
OUTDOOR FAN MOTOR	TYPE		INDUCTION	
	Q'TY		1	
	INDEX OF PROTECTION (IP)		N/A	
COMPRESSOR	TYPE		ROTARY	
	QUANTITY		2	1
	OIL TYPE		ATMOS M60 / SUNISO 4GDID	
	OIL AMOUNT	cm <sup>3</sup>	350 / 11.8	1130 / 38.2
INDOOR COIL	TUBE	MATERIAL	SEAMLESS COPPER	
		DIAMETER	mm/in	7.00 / 0.28
		THICKNESS	mm/in	0.28 / 0.011
	FIN	MATERIAL	ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.0043
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.318 / 3.42
		ROW	1	2
		FIN PER INCH	20	14
OUTDOOR COIL	TUBE	MATERIAL	S.I.G.C	
		DIAMETER	mm/in	9.52 / 3/8
		THICKNESS	mm/in	0.33 / 0.013
	FIN	MATERIAL	ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.004
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.87 / 9.33
		ROW	3	
		FIN PER INCH	14	
FILTRATION	TYPE		WASHABLE SARANET FILTER	
	QUANTITY		1	
	DIMENSION	LENGTH	mm / in	367.5 / 14.5
		WIDTH	mm / in	381.0 / 15.0
		THICKNESS	mm / in	20.8 / 0.8
CASING	PANEL	MATERIAL	ABS	
		FINISHING	N/A	
		COLOUR	LIGHT GREY	
	INDOOR UNIT	MATERIAL	GALVANIZED STEEL	
		FINISHING	WITH PE INSULATION	
		COLOUR	WITHOUT POWDER PAINT	
	OUTDOOR UNIT	MATERIAL	GALVANISED MILD STEEL	
		FINISHING	EPOXY-POLYESTER POWDER	
		COLOUR	LIGHT GREY	

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## Components Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MMST151525A	
	OUTDOOR UNIT		2 x MCK015C	MCK025A
INDOOR FAN	TYPE		TURBO FAN	
	Q'TY		1	
	MATERIAL		ASG20	
	DRIVE		DIRECT	
	DIAMETER	mm/in	330 / 13.0	450 / 17.72
	LENGTH	mm/in	178 / 7.0	170 / 6.67
INDOOR FAN MOTOR	TYPE		INDUCTION	
	Q'TY		1	
	INDEX OF PROTECTION (IP)		N/A	IP22
OUTDOOR FAN	TYPE		PROPELLER	
	Q'TY		1	
	MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN	
	DRIVE		DIRECT	
	DIAMETER	mm/in	482.6 / 19	
OUTDOOR FAN MOTOR	TYPE		INDUCTION	
	Q'TY		1	
	INDEX OF PROTECTION (IP)		N/A	
COMPRESSOR	TYPE		ROTARY	
	QUANTITY		2	1
	OIL TYPE		ATMOS M60 / SUNISO 4GDID	
	OIL AMOUNT	cm <sup>3</sup>	410 / 13.9	1130 / 38.2
INDOOR COIL	TUBE	MATERIAL	SEAMLESS COPPER	
		DIAMETER	mm/in	7.00 / 0.28
		THICKNESS	mm/in	0.28 / 0.011
	FIN	MATERIAL	ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.0043
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.318 / 3.42
		ROW	2	2
		FIN PER INCH	20	14
OUTDOOR COIL	TUBE	MATERIAL	S.I.G.C	
		DIAMETER	mm/in	9.52 / 3/8
		THICKNESS	mm/in	0.33 / 0.013
	FIN	MATERIAL	ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.004
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.87 / 9.33
		ROW	3	
		FIN PER INCH	14	
FILTRATION	TYPE		WASHABLE SARANET FILTER	
	QUANTITY		pc	1
	DIMENSION	LENGTH	mm / in	367.5 / 14.5
		WIDTH	mm / in	381.0 / 15.0
		THICKNESS	mm / in	20.8 / 0.8
CASING	PANEL	MATERIAL	ABS	
		FINISHING	N/A	
		COLOUR	LIGHT GREY	
	INDOOR UNIT	MATERIAL	GALVANIZED STEEL	
		FINISHING	WITH PE INSULATION	
		COLOUR	WITHOUT POWDER PAINT	
	OUTDOOR UNIT	MATERIAL	GALVANISED MILD STEEL	
		FINISHING	EPOXY-POLYESTER POWDER	
		COLOUR	LIGHT GREY	

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## Components Data - Cooling Only (R22)

MODEL	INDOOR UNIT			MMST101525A		
	OUTDOOR UNIT			MCK010C	MCK015C	MCK025A
INDOOR FAN	TYPE			TURBO FAN		
	Q'TY			1		
	MATERIAL			ASG20		
	DRIVE			DIRECT		
	DIAMETER	mm/in		330 / 13.0		450 / 17.7
	LENGTH	mm/in		178 / 7.0		170 / 6.7
INDOOR FAN MOTOR	TYPE			INDUCTION		
	Q'TY			1		
	INDEX OF PROTECTION (IP)			N/A		IP22
OUTDOOR FAN	TYPE			PROPELLER		
	Q'TY			1		
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER	mm/in		609.6 / 24		
OUTDOOR FAN MOTOR	TYPE			INDUCTION		
	Q'TY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			1		
	OIL TYPE			ATMOS M60 / SUNISO 4GDID		
	OIL AMOUNT	cm <sup>3</sup>		350 / 11.8	410 / 13.9	1130 / 38.2
INDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER		
		DIAMETER	mm/in	7.00 / 0.28		9.52 / 3/8
		THICKNESS	mm/in	0.28 / 0.011		0.35 / 0.014
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.0043		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.318 / 3.42		0.469 / 5.022
		ROW	1		2	2
		FIN PER INCH	20		20	14
OUTDOOR COIL	TUBE	MATERIAL		SEAMLESS COPPER		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.87 / 9.33		
		ROW	3			
		FIN PER INCH	16			
FILTRATION	TYPE			WASHABLE SARANET FILTER		
	QUANTITY		pc	1		
	DIMENSION	LENGTH	mm / in	367.5 / 14.5		576.0 / 22.7
		WIDTH	mm / in	381.0 / 15.0		556.0 / 21.9
		THICKNESS	mm / in	20.8 / 0.8		22.0 / 0.87
CASING	INDOOR UNIT		MATERIAL	GALVANIZED STEEL		
			FINISHING	WITH PE INSULATION		
			COLOUR	WITHOUT POWDER PAINT		
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL		
			FINISHING	EPOXY-POLYESTER POWDER		
			COLOUR	LIGHT GREY		

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

## Components Data - Heatpump (R22)

MODEL	OUTDOOR UNIT			MMST101010AR	MMST151515AR
	INDOOR UNIT			3 x MWM010GR	3 x MWM015GR
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL	
	QUANTITY			1	
	MATERIAL			ASG30	
	DRIVE			DIRECT	
	DIAMETER	mm/in		97 / 3.82	
	LENGTH	mm/in		717.5 / 28.25	
INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR	
	QUANTITY			1	
	INDEX OF PROTECTION (IP)			IP24	
OUTDOOR FAN	TYPE			PROPELLER	
	QUANTITY			1	
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN	
	DRIVE			DIRECT	
	DIAMETER	mm/in		482.6 / 19	
OUTDOOR FAN MOTOR	TYPE			INDUCTION MOTOR	
	QUANTITY			1	
	INDEX OF PROTECTION (IP)			N/A	
COMPRESSOR	TYPE			ROTARY	
	QUANTITY			3	
	OIL TYPE			ATMOS M60 / SUNISO 4GDID	
	OIL AMOUNT	cm <sup>3</sup> /fl.oz.		350 / 11.8	410 / 13.9
	INDOOR COIL	TUBE	MATERIAL		S.I.G.C.
DIAMETER			mm/in	7 / 0.28	
THICKNESS			mm/in	0.28 / 0.011	
FIN		MATERIAL		ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.004	
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.193 / 2.08	
		ROW		2	
		FIN PER INCH		18	
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.	
		DIAMETER	mm/in	9.52 / 3/8	
		THICKNESS	mm/in	0.33 / 0.013	
	FIN	MATERIAL		ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.004	
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.50 / 5.39	
		ROW		3	
		FIN PER INCH		14	
AIR QUALITY	FILTER	TYPE		NANO FILTER	
		QUANTITY		2	
		SIZE	LENGTH	mm/in	304 / 11.9
			WIDTH	mm/in	348 / 13.7
			THICKNESS	mm/in	1.5 / 0.06
	NEGATIVE IONIZER			YES	
	CASING	INDOOR UNIT	MATERIAL	HIPS	
COLOUR			IVORY		
OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL		
		FINISHING	EPOXY-POLYESTER POWDER		
		COLOUR	LIGHT GREY		

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.



## Components Data - Heatpump (R22)

MODEL	OUTDOOR UNIT			MMST101015AR	
	INDOOR UNIT			2 x MWM010GR	MWM015GR
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL	
	QUANTITY			1	
	MATERIAL			ASG30	
	DRIVE			DIRECT	
	DIAMETER		mm/in	97 / 3.82	
	LENGTH		mm/in	717.5 / 28.25	
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR
QUANTITY			1		
INDEX OF PROTECTION (IP)			IP24		
OUTDOOR FAN	TYPE			PROPELLER	
	QUANTITY			1	
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN	
	DRIVE			DIRECT	
	DIAMETER		mm/in	482.6 / 19	
OUTDOOR FAN MOTOR	TYPE			INDUCTION MOTOR	
	QUANTITY			1	
	INDEX OF PROTECTION (IP)			N/A	
COMPRESSOR	TYPE			ROTARY	
	QUANTITY			2	1
	OIL TYPE			ATMOS M60 / SUNISO 4GDID	
	OIL AMOUNT		cm <sup>3</sup> /fl.oz.	350 / 11.8	410 / 13.9
	INDOOR COIL	TUBE	MATERIAL		S.I.G.C.
DIAMETER			mm/in	7 / 0.28	
THICKNESS			mm/in	0.28 / 0.011	
FIN		MATERIAL		ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.004	
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.193 / 2.08	
		ROW		2	
		FIN PER INCH		18	
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.	
		DIAMETER	mm/in	9.52 / 3/8	
		THICKNESS	mm/in	0.33 / 0.013	
	FIN	MATERIAL		ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.004	
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.50 / 5.39	
		ROW		3	
		FIN PER INCH		14	
AIR QUALITY	FILTER	TYPE		NANO FILTER	
		QUANTITY		2	
		SIZE	LENGTH	mm/in	304 / 11.9
			WIDTH	mm/in	348 / 13.7
			THICKNESS	mm/in	1.5 / 0.06
	NEGATIVE IONIZER			YES	
	CASING	INDOOR UNIT		MATERIAL	HIPS
COLOUR				IVORY	
OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL		
		FINISHING	EPOXY-POLYESTER POWDER		
		COLOUR	LIGHT GREY		

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

## Components Data - Heatpump (R22)

MODEL	OUTDOOR UNIT			MMST101515AR	
	INDOOR UNIT			MWM010GR	2 x MWM015GR
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL	
	QUANTITY			1	
	MATERIAL			ASG30	
	DRIVE			DIRECT	
	DIAMETER		mm/in	97 / 3.82	
	LENGTH		mm/in	717.5 / 28.25	
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR
QUANTITY			1		
INDEX OF PROTECTION (IP)			IP24		
OUTDOOR FAN	TYPE			PROPELLER	
	QUANTITY			1	
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN	
	DRIVE			DIRECT	
	DIAMETER		mm/in	482.6 / 19	
OUTDOOR FAN MOTOR	TYPE			INDUCTION MOTOR	
	QUANTITY			1	
	INDEX OF PROTECTION (IP)			N/A	
COMPRESSOR	TYPE			ROTARY	
	QUANTITY			1	2
	OIL TYPE			ATMOS M60 / SUNISO 4GDID	
	OIL AMOUNT		cm <sup>3</sup> /fl.oz.	350 / 11.8	410 / 13.9
INDOOR COIL	TUBE	MATERIAL		S.I.G.C.	
		DIAMETER	mm/in	7 / 0.28	
		THICKNESS	mm/in	0.28 / 0.011	
	FIN	MATERIAL		ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.004	
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.193 / 2.08	
		ROW		2	
		FIN PER INCH		18	
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.	
		DIAMETER	mm/in	9.52 / 3/8	
		THICKNESS	mm/in	0.33 / 0.013	
	FIN	MATERIAL		ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.004	
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.50 / 5.39	
		ROW		3	
		FIN PER INCH		14	
AIR QUALITY	FILTER	TYPE		NANO FILTER	
		QUANTITY		pc	2
		SIZE	LENGTH	mm/in	304 / 11.9
			WIDTH	mm/in	348 / 13.7
			THICKNESS	mm/in	1.5 / 0.06
	NEGATIVE IONIZER			YES	
CASING	INDOOR UNIT		MATERIAL	HIPS	
			COLOUR	IVORY	
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL	
			FINISHING	EPOXY-POLYESTER POWDER	
			COLOUR	LIGHT GREY	

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

## Components Data - Cooling Only (R407C)

MODEL	OUTDOOR UNIT			M4MST101010A		M4MST151515A		
	INDOOR UNIT			3 x MWM010G		3 x MWM015G		
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL				
	QUANTITY			1				
	MATERIAL			ASG30				
	DRIVE			DIRECT				
	DIAMETER		mm/in	97 / 3.82				
	LENGTH		mm/in	717.5 / 28.25				
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR			
QUANTITY			1					
INDEX OF PROTECTION (IP)			IP24					
OUTDOOR FAN	TYPE			PROPELLER				
	QUANTITY			1				
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN				
	DRIVE			DIRECT				
	DIAMETER		mm/in	482.6 / 19				
OUTDOOR FAN MOTOR	TYPE			INDUCTION MOTOR				
	QUANTITY			1				
	INDEX OF PROTECTION (IP)			N/A				
COMPRESSOR	TYPE			ROTARY				
	QUANTITY			3				
	OIL TYPE			RB68A				
	OIL AMOUNT		cm³/fl.oz.	350 / 11.8		410 / 13.9		
INDOOR COIL	TUBE	MATERIAL		S.I.G.C.				
		DIAMETER	mm/in	7 / 0.28				
		THICKNESS	mm/in	0.28 / 0.011				
	FIN	MATERIAL		ALUMINIUM				
		THICKNESS	mm/in	0.11 / 0.004				
		FACE AREA	m²/ft²	0.193 / 2.08				
		ROW		2				
		FIN PER INCH		18				
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.				
		DIAMETER	mm/in	9.52 / 3/8				
		THICKNESS	mm/in	0.33 / 0.013				
	FIN	MATERIAL		ALUMINIUM				
		THICKNESS	mm/in	0.11 / 0.004				
		FACE AREA	m²/ft²	0.50 / 5.39				
		ROW		3				
		FIN PER INCH		14				
AIR QUALITY	FILTER	TYPE		NANO FILTER				
		QUANTITY		pc				
		SIZE	LENGTH	mm/in	304 / 11.9			
			WIDTH	mm/in	348 / 13.7			
			THICKNESS	mm/in	1.5 / 0.06			
	NEGATIVE IONIZER			YES				
	CASING	INDOOR UNIT		MATERIAL	HIPS			
COLOUR				IVORY				
OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL					
		FINISHING	EPOXY-POLYESTER POWDER					
		COLOUR	LIGHT GREY					

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## Components Data - Cooling Only (R407C)

MODEL	OUTDOOR UNIT			M4MST101015A		
	INDOOR UNIT			2 x MWM010G		MWM015G
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL		
	QUANTITY			1		
	MATERIAL			ASG30		
	DRIVE			DIRECT		
	DIAMETER		mm/in	97 / 3.82		
	LENGTH		mm/in	717.5 / 28.25		
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR	
QUANTITY			1			
INDEX OF PROTECTION (IP)			IP24			
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER		mm/in	482.6 / 19		
OUTDOOR FAN MOTOR	TYPE			INDUCTION MOTOR		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			2		1
	OIL TYPE			RB68A		
	OIL AMOUNT		cm <sup>3</sup> /fl.oz.	350 / 11.8		410 / 13.9
	INDOOR COIL	TUBE	MATERIAL		S.I.G.C.	
DIAMETER			mm/in	7 / 0.28		
THICKNESS			mm/in	0.28 / 0.011		
FIN		MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.193 / 2.08		
		ROW		2		
		FIN PER INCH		18		
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.50 / 5.39		
		ROW		3		
		FIN PER INCH		14		
AIR QUALITY	FILTER	TYPE		NANO FILTER		
		QUANTITY		pc	2	
		SIZE	LENGTH	mm/in	304 / 11.9	
			WIDTH	mm/in	348 / 13.7	
			THICKNESS	mm/in	1.5 / 0.06	
	NEGATIVE IONIZER			YES		
	CASING	INDOOR UNIT		MATERIAL	HIPS	
COLOUR				IVORY		
OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL			
		FINISHING	EPOXY-POLYESTER POWDER			
		COLOUR	LIGHT GREY			

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## Components Data - Cooling Only (R407C)

MODEL	OUTDOOR UNIT			M4MST101515A		
	INDOOR UNIT			MWM010G	2 x MWM015G	
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL		
	QUANTITY			1		
	MATERIAL			ASG30		
	DRIVE			DIRECT		
	DIAMETER	mm/in		97 / 3.82		
	LENGTH	mm/in		717.5 / 28.25		
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR	
QUANTITY			1			
INDEX OF PROTECTION (IP)			IP24			
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER	mm/in		482.6 / 19		
OUTDOOR FAN MOTOR	TYPE			INDUCTION MOTOR		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			1	2	
	OIL TYPE			RB68A		
	OIL AMOUNT	cm <sup>3</sup> /fl.oz.		350 / 11.8	410 / 13.9	
INDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	7 / 0.28		
		THICKNESS	mm/in	0.28 / 0.011		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.193 / 2.08		
		ROW		2		
		FIN PER INCH		18		
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.50 / 5.39		
		ROW		3		
		FIN PER INCH		14		
AIR QUALITY	FILTER	TYPE		NANO FILTER		
		QUANTITY		pc		
		SIZE	LENGTH	mm/in	304 / 11.9	
			WIDTH	mm/in	348 / 13.7	
			THICKNESS	mm/in	1.5 / 0.06	
	NEGATIVE IONIZER			YES		
	CASING	INDOOR UNIT		MATERIAL	HIPS	
COLOUR				IVORY		
OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL			
		FINISHING	EPOXY-POLYESTER POWDER			
		COLOUR	LIGHT GREY			

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## Components Data - Heatpump (R407C)

MODEL	OUTDOOR UNIT			M4MST101010AR		M4MST151515AR		
	INDOOR UNIT			3 x MWM010GR		3 x MWM015GR		
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL				
	QUANTITY			1				
	MATERIAL			ASG30				
	DRIVE			DIRECT				
	DIAMETER	mm/in		97 / 3.82				
	LENGTH	mm/in		717.5 / 28.25				
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR			
QUANTITY			1					
INDEX OF PROTECTION (IP)			IP24					
OUTDOOR FAN	TYPE			PROPELLER				
	QUANTITY			1				
	MATERIAL			GLASS REINFORCED ACRYL STYRENE RESIN				
	DRIVE			DIRECT				
	DIAMETER	mm/in		482.6 / 19				
OUTDOOR FAN MOTOR	TYPE			INDUCTION MOTOR				
	QUANTITY			1				
	INDEX OF PROTECTION (IP)			N/A				
COMPRESSOR	TYPE			ROTARY				
	QUANTITY			3				
	OIL TYPE			RB68A				
	OIL AMOUNT	cm <sup>3</sup> /fl.oz.		350 / 11.8		410 / 13.9		
INDOOR COIL	TUBE	MATERIAL		S.I.G.C.				
		DIAMETER	mm/in	7 / 0.28				
		THICKNESS	mm/in	0.28 / 0.011				
	FIN	MATERIAL		ALUMINIUM				
		THICKNESS	mm/in	0.11 / 0.004				
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.193 / 2.08				
		ROW		2				
		FIN PER INCH		18				
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.				
		DIAMETER	mm/in	9.52 / 3/8				
		THICKNESS	mm/in	0.33 / 0.013				
	FIN	MATERIAL		ALUMINIUM				
		THICKNESS	mm/in	0.11 / 0.004				
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.50 / 5.39				
		ROW		3				
		FIN PER INCH		14				
AIR QUALITY	FILTER	TYPE		NANO FILTER				
		QUANTITY		pc		2		
		SIZE	LENGTH	mm/in	304 / 11.9			
			WIDTH	mm/in	348 / 13.7			
			THICKNESS	mm/in	1.5 / 0.06			
	NEGATIVE IONIZER			YES				
CASING	INDOOR UNIT		MATERIAL	HIPS				
			COLOUR	IVORY				
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL				
			FINISHING	EPOXY-POLYESTER POWDER				
			COLOUR	LIGHT GREY				

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## Components Data - Heatpump (R407C)

MODEL	OUTDOOR UNIT			M4MST101015AR		
	INDOOR UNIT			2 x MWM010GR	MWM015GR	
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL		
	QUANTITY			1		
	MATERIAL			ASG30		
	DRIVE			DIRECT		
	DIAMETER		mm/in	97 / 3.82		
	LENGTH		mm/in	717.5 / 28.25		
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR	
QUANTITY			1			
INDEX OF PROTECTION (IP)			IP24			
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER		mm/in	482.6 / 19		
OUTDOOR FAN MOTOR	TYPE			INDUCTION MOTOR		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			2	1	
	OIL TYPE			RB68A		
	OIL AMOUNT		cm³/fl.oz.	350 / 11.8	410 / 13.9	
	INDOOR COIL	TUBE	MATERIAL		S.I.G.C.	
DIAMETER			mm/in	7 / 0.28		
THICKNESS			mm/in	0.28 / 0.011		
FIN		MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m²/ft²	0.193 / 2.08		
		ROW		2		
		FIN PER INCH		18		
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m²/ft²	0.50 / 5.39		
		ROW		3		
		FIN PER INCH		14		
AIR QUALITY	FILTER	TYPE		NANO FILTER		
		QUANTITY		2		
		SIZE	LENGTH	mm/in	304 / 11.9	
			WIDTH	mm/in	348 / 13.7	
			THICKNESS	mm/in	1.5 / 0.06	
	NEGATIVE IONIZER			YES		
	CASING	INDOOR UNIT	MATERIAL	HIPS		
COLOUR			IVORY			
OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL			
		FINISHING	EPOXY-POLYESTER POWDER			
		COLOUR	LIGHT GREY			

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

## Components Data - Heatpump (R407C)

MODEL	OUTDOOR UNIT			M4MST101515AR		
	INDOOR UNIT			MWM010GR	2 x MWM015GR	
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL		
	QUANTITY			1		
	MATERIAL			ASG30		
	DRIVE			DIRECT		
	DIAMETER		mm/in	97 / 3.82		
	LENGTH		mm/in	717.5 / 28.25		
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR	
QUANTITY			1			
INDEX OF PROTECTION (IP)			IP24			
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER		mm/in	482.6 / 19		
OUTDOOR FAN MOTOR	TYPE			INDUCTION MOTOR		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			1	2	
	OIL TYPE			RB68A		
	OIL AMOUNT		cm³/fl.oz.	350 / 11.8	410 / 13.9	
	INDOOR COIL	TUBE	MATERIAL		S.I.G.C.	
DIAMETER			mm/in	7 / 0.28		
THICKNESS			mm/in	0.28 / 0.011		
FIN		MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m²/ft²	0.193 / 2.08		
		ROW		2		
		FIN PER INCH		18		
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m²/ft²	0.50 / 5.39		
		ROW		3		
		FIN PER INCH		14		
AIR QUALITY	FILTER	TYPE		NANO FILTER		
		QUANTITY		2		
		SIZE	LENGTH	mm/in	304 / 11.9	
			WIDTH	mm/in	348 / 13.7	
			THICKNESS	mm/in	1.5 / 0.06	
	NEGATIVE IONIZER			YES		
	CASING	INDOOR UNIT		MATERIAL	HIPS	
COLOUR				IVORY		
OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL			
		FINISHING	EPOXY-POLYESTER POWDER			
		COLOUR	LIGHT GREY			

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

## Capacity Data - Cooling Only (R22)

OUTDOOR OPERATING UNIT (MMST)	INDOOR OPERATING UNIT (MWM)	NOMINAL INDIVIDUAL CAPACITY						NOMINAL TOTAL CAPACITY		NOMINAL TOTAL INPUT POWER	NOMINAL RUNNING CURRENT
		A		B		C					
		Btu/h	W	Btu/h	W	Btu/h	W	Btu/h	W	W	A
101010A	010G	9000	2640	-	-	-	-	9000	2640	1117	4.93
	010G + 010G	9000	2640	9000	2640	-	-	18000	5280	2006	8.88
	010G + 010G + 010G	9000	2640	9000	2640	9000	2640	27000	7910	2895	12.83
151515A	015G	12700	3720	-	-	-	-	12700	3720	1548	6.81
	015G + 015G	12700	3720	12700	3720	-	-	25400	7440	2868	12.64
	015G + 015G + 015G	12700	3720	12700	3720	12700	3720	38100	11170	4188	18.47
101015A	010G	9000	2640	-	-	-	-	9000	2640	1117	4.93
	015G	12700	3720	-	-	-	-	12700	3720	1548	6.81
	010G + 010G	9000	2640	9000	2640	-	-	18000	5280	2006	8.88
	010G + 015G	9000	2640	12700	3720	-	-	21700	6360	2437	10.76
	010G + 010G + 015G	9000	2640	9000	2640	12700	3720	30700	9000	3326	14.71
101515A	010G	9500	2780	-	-	-	-	9500	2780	1024	4.37
	015G	12700	3720	-	-	-	-	12700	3720	1544	6.79
	010G + 015G	9500	2780	12700	3720	-	-	22200	6500	2340	10.18
	015G + 015G	12700	3720	12700	3720	-	-	25400	7440	2860	12.60
	010G + 015G + 015G	9500	2780	12700	3720	12700	3720	34900	10220	3665	16.31
101020A	010G	9000	2640	-	-	-	-	9000	2640	1117	4.93
	020G	18000	5280	-	-	-	-	18000	5280	2249	10.22
	010G + 010G	9000	2640	9000	2640	-	-	18000	5280	2006	8.88
	010G + 020G	9000	2640	18000	5280	-	-	27000	7920	3138	14.17
	010G + 010G + 020G	9000	2640	9000	2640	18000	5280	36000	10560	4027	18.12
101025A	010G	9000	2640	-	-	-	-	9000	2640	1117	4.93
	025G	23000	6740	-	-	-	-	23000	6740	2724	13.27
	010G + 010G	9000	2640	9000	2640	-	-	18000	5280	2006	8.88
	010G + 025G	9000	2640	23000	6740	-	-	32000	9380	3613	17.22
	010G + 010G + 025G	9000	2640	9000	2640	23000	6740	51000	12020	4502	21.17
151525A	015G	12700	3720	-	-	-	-	12700	3720	1548	6.81
	025G	23000	6740	-	-	-	-	23000	6740	2724	13.27
	015G + 015G	12700	3720	12700	3720	-	-	25400	7440	2868	12.64
	015G + 025G	12700	3720	23000	6740	-	-	35700	10460	4044	19.10
	015G + 015G + 025G	12700	3720	12700	3720	23000	6740	61100	17910	5364	24.93
101525A	010G	9500	2780	-	-	-	-	9500	2780	1117	5.14
	015G	12000	3520	-	-	-	-	12000	3520	1548	7.11
	025G	23000	6740	-	-	-	-	23000	6740	2724	13.27
	010G + 015G	9500	2780	12000	3520	-	-	21500	6300	2505	11.87
	010G + 025G	9500	2780	23000	6740	-	-	32500	9520	3611	17.11
	015G + 025G	12000	3520	23000	6740	-	-	35000	10260	4016	19.03
	010G + 015G + 025G	9500	2780	12000	3520	23000	6740	44500	13040	4790	22.70

## Capacity Data - Heatpump (R22)

### Cooling Capacity

Cooling Capacity											
OUTDOOR OPERATING UNIT (MMST)	INDOOR OPERATING UNIT (MWM)	NOMINAL INDIVIDUAL CAPACITY (COOLING)						NOMINAL TOTAL CAPACITY		NOMINAL TOTAL INPUT POWER	NOMINAL RUNNING CURRENT
		A		B		C					
		Btu/h	W	Btu/h	W	Btu/h	W	Btu/h	W	W	A
101010AR	010GR	9000	2640	-	-	-	-	9000	2640		
	010GR + 010GR	9000	2640	9000	2640	-	-	18000	5280		
	010GR + 010GR + 010GR	9000	2640	9000	2640	9000	2640	27000	7910	2544	11.42
151515AR	015GR	12000	3520	-	-	-	-	12000	3520		
	015GR + 015GR	12000	3520	12000	3520	-	-	24000	7040		
	015GR + 015GR + 015GR	12000	3520	12000	3520	12000	3520	36000	10550	3957	17.93
101015AR	010GR	9000	2640	-	-	-	-	9000	2640		
	015GR	12000	3520	-	-	-	-	12000	3520		
	010GR + 010GR	9000	2640	9000	2640	-	-				
	010GR + 015GR	9000	2640	12000	3520	-	-				
	010GR + 010GR + 015GR	9000	2640	9000	2640	12000	3520	30000	8800	3015	13.59
101515AR	010GR	9000	2640	-	-	-	-	9000	2640		
	015GR	12000	3520	-	-	-	-	12000	3520		
	010GR + 015GR	9000	2640	12000	3520	-	-				
	015GR + 015GR	12000	3520	12000	3520	-	-				
	010GR + 015GR + 015GR	9000	2640	12000	3520	12000	3520	33000	9680	3486	15.76

### Heating Capacity

OUTDOOR OPERATING UNIT (MMST)	INDOOR OPERATING UNIT (MWM)	NOMINAL INDIVIDUAL CAPACITY (HEATING)						NOMINAL TOTAL CAPACITY		NOMINAL TOTAL INPUT POWER	NOMINAL RUNNING CURRENT
		A		B		C					
		Btu/h	W	Btu/h	W	Btu/h	W	Btu/h	W	W	A
101010AR	010GR	9000	2640	-	-	-	-	9000	2640		
	010GR + 010GR	9000	2640	9000	2640	-	-	18000	5280		
	010GR + 010GR + 010GR	9000	2640	9000	2640	9000	2640	27000	7910	2337	10.61
151515AR	015GR	11000	3220	-	-	-	-	11000	3220		
	015GR + 015GR	11000	3220	11000	3220	-	-	22000	6440		
	015GR + 015GR + 015GR	11000	3220	11000	3220	11000	3220	33000	9670	3420	15.71
101015AR	010GR	9000	2640	-	-	-	-	9000	2640		
	015GR	11000	3220	-	-	-	-	11000	3220		
	010GR + 010GR	9000	2640	9000	2640	-	-				
	010GR + 015GR	9000	2640	11000	3220	-	-				
	010GR + 010GR + 015GR	9000	2640	9000	2640	11000	3220	29000	8500	2698	12.31
101515AR	010GR	9000	2640	-	-	-	-	9000	2640		
	015GR	11000	3220	-	-	-	-	11000	3220		
	010GR + 015GR	9000	2640	11000	3220	-	-				
	015GR + 015GR	11000	3220	11000	3220	-	-				
	010GR + 015GR + 015GR	9000	2640	11000	3220	11000	3220	31000	9080	3059	14.01

## Capacity Data - Cooling Only (R407C)

OUTDOOR OPERATING UNIT (M4MST)	INDOOR OPERATING UNIT (MWM)	NOMINAL INDIVIDUAL CAPACITY						NOMINAL TOTAL CAPACITY		NOMINAL TOTAL INPUT POWER	NOMINAL RUNNING CURRENT
		A		B		C					
		Btu/h	W	Btu/h	W	Btu/h	W	Btu/h	W	W	A
101010A	010G	9000	2640	-	-	-	-	9000	2640	1236	5.42
	010G + 010G	9000	2640	9000	2640	-	-	18000	5280	2138	9.38
	010G + 010G + 010G	9000	2640	9000	2640	9000	2640	27000	7920	2943	12.92
151515A	015G	12000	3520	-	-	-	-	12000	3520	1698	7.56
	015G + 015G	12000	3520	12000	3520	-	-	24000	7040	3012	13.44
	015G + 015G + 015G	12000	3520	12000	3520	12000	3520	36000	10560	4182	18.68
101015A	010G	9000	2640	-	-	-	-	9000	2640	1236	5.42
	015G	12000	3520	-	-	-	-	12000	3520	1698	7.56
	010G + 010G	9000	2640	9000	2640	-	-	18000	5280	2138	9.38
	010G + 015G	9000	2640	12000	3520	-	-	21000	6160	2575	11.41
	010G + 010G + 015G	9000	2640	9000	2640	12000	3520	30000	8800	3356	14.84
101515A	010G	9000	2640	-	-	-	-	9000	2640	1236	5.42
	015G	12000	3520	-	-	-	-	12000	3520	1698	7.56
	010G + 015G	9000	2640	12000	3520	-	-	21000	6160	2575	11.41
	015G + 015G	12000	3520	12000	3520	-	-	24000	7040	3012	13.44
	010G + 015G + 015G	9000	2640	12000	3520	12000	3520	33000	9680	3769	16.76

## Capacity Data - Heatpump (R407C)

OUTDOOR OPERATING UNIT (M4MST)	INDOOR OPERATING UNIT (MWM)	NOMINAL INDIVIDUAL CAPACITY (COOLING)						NOMINAL TOTAL CAPACITY		NOMINAL TOTAL INPUT POWER	NOMINAL RUNNING CURRENT
		A		B		C					
		Btu/h	W	Btu/h	W	Btu/h	W	Btu/h	W	W	A
101010AR	010GR	9000	2640	-	-	-	-	9000	2640		
	010GR + 010GR	9000	2640	9000	2640	-	-	18000	5280		
	010GR + 010GR + 010GR	9000	2640	9000	2640	9000	2640	27000	7920	2943	12.92
151515AR	015GR	12000	3520	-	-	-	-	12000	3520		
	015GR + 015GR	12000	3520	12000	3520	-	-	24000	7040		
	015GR + 015GR + 015GR	12000	3520	12000	3520	12000	3520	36000	10560	4182	18.68
101015AR	010GR	9000	2640	-	-	-	-	9000	2640		
	015GR	12000	3520	-	-	-	-	12000	3520		
	010GR + 010GR	9000	2640	9000	2640	-	-	18000	5280		
	010GR + 015GR	9000	2640	12000	3520	-	-	21000	6160		
	010GR + 010GR + 015GR	9000	2640	9000	2640	12000	3520	30000	8800	3356	14.84
101515AR	010GR	9000	2640	-	-	-	-	9000	2640		
	015GR	12000	3520	-	-	-	-	12000	3520		
	010GR + 015GR	9000	2640	12000	3520	-	-	21000	6160		
	015GR + 015GR	12000	3520	12000	3520	-	-	24000	7040		
	010GR + 015GR + 015GR	9000	2640	12000	3520	12000	3520	33000	9680	3769	16.76

### Heating Capacity

OUTDOOR OPERATING UNIT (M4MST)	INDOOR OPERATING UNIT (MWM)	NOMINAL INDIVIDUAL CAPACITY (HEATING)						NOMINAL TOTAL CAPACITY		NOMINAL TOTAL INPUT POWER	NOMINAL RUNNING CURRENT
		A		B		C					
		Btu/h	W	Btu/h	W	Btu/h	W	Btu/h	W	W	A
101010AR	010GR	9000	2640	-	-	-	-	9000	2640		
	010GR + 010GR	9000	2640	9000	2640	-	-	18000	5280		
	010GR + 010GR + 010GR	9000	2640	9000	2640	9000	2640	27000	7920	2622	11.72
151515AR	015GR	11000	3220	-	-	-	-	11000	3220		
	015GR + 015GR	11000	3220	11000	3220	-	-	22000	6440		
	015GR + 015GR + 015GR	11000	3220	11000	3220	11000	3220	33000	9660	3675	17.78
101015AR	010GR	9000	2640	-	-	-	-	9000	2640		
	015GR	11000	3220	-	-	-	-	11000	3220		
	010GR + 010GR	9000	2640	9000	2640	-	-	18000	5280		
	010GR + 015GR	9000	2640	11000	3220	-	-	20000	5860		
	010GR + 010GR + 015GR	9000	2640	9000	2640	11000	3220	29000	8500	2973	13.74
101515AR	010GR	9000	2640	-	-	-	-	9000	2640		
	015GR	11000	3220	-	-	-	-	11000	3220		
	010GR + 015GR	9000	2640	11000	3220	-	-	20000	5860		
	015GR + 015GR	11000	3220	11000	3220	-	-	22000	6440		
	010GR + 015GR + 015GR	9000	2640	11000	3220	11000	3220	31000	9080	3324	15.76



## Capacity Data - Cooling Only (R22)

OUTDOOR OPERATING UNIT (MMST)	INDOOR OPERATING UNIT (MCK)	NOMINAL INDIVIDUAL CAPACITY						NOMINAL TOTAL CAPACITY		NOMINAL TOTAL INPUT POWER	NOMINAL RUNNING CURRENT
		A		B		C					
		Btu/h	W	Btu/h	W	Btu/h	W	Btu/h	W	W	A
101010A	10C	9500	2780	-	-	-	-	9500	2780	1080	4.98
	10C + 10C	9500	2780	9500	2780	-	-	19000	5560	1932	8.98
	10C + 10C + 10C	9500	2780	9500	2780	9500	2780	28500	8340	2784	12.98
151515A	15C	12700	3720	-	-	-	-	12700	3720	1647	7.23
	15C + 15C	12700	3720	12700	3720	-	-	25400	7440	3066	13.48
	15C + 15C + 15C	12700	3720	12700	3720	12700	3720	38100	11160	4485	19.73
101015A	10C	9500	2780	-	-	-	-	9500	2780	1080	4.98
	15C	12700	3720	-	-	-	-	12700	3720	1647	7.23
	10C + 10C	9500	2780	9500	2780	-	-	19000	5560	1932	8.98
	10C + 15C	9500	2780	9500	3720	-	-	19000	6500	2499	11.23
	10C + 10C + 15C	9500	2780	9500	2780	12700	3720	31700	9280	3351	15.23
101515A	10C	9500	2780	-	-	-	-	9500	2780	1080	4.98
	15C	12700	3720	-	-	-	-	12700	3720	1647	7.23
	10C + 15C	9500	2780	9500	3720	-	-	19000	6500	2499	11.23
	15C + 15C	12700	3720	12700	3720	-	-	25400	7440	3066	13.48
	10C + 15C + 15C	9500	2780	9500	3720	12700	3720	31700	10220	3918	17.48
101020A	10C	9500	2780	-	-	-	-	9500	2780	1080	4.98
	20C	18000	5280	-	-	-	-	18000	5280	2273	10.31
	10C + 10C	9500	2780	9500	2780	-	-	19000	5560	1932	8.98
	10C + 20C	9500	2780	9500	5280	-	-	19000	8060	3125	14.31
	10C + 10C + 20C	9500	2780	9500	2780	18000	5280	37000	10840	3977	18.31
101025A	10C	9500	2780	-	-	-	-	9500	2780	1080	4.98
	25C	23000	6740	-	-	-	-	23000	6740	2802	13.60
	10C + 10C	9500	2780	9500	2780	-	-	19000	5560	1932	8.98
	10C + 25A	9500	2780	9500	6740	-	-	19000	9520	3654	17.60
	10C + 10C + 25A	9500	2780	9500	2780	23000	6740	42000	12300	4506	21.60
151525A	15C	12700	3720	-	-	-	-	12700	3720	1647	7.23
	25C	23000	6740	-	-	-	-	23000	6740	2802	13.60
	15C + 15C	12700	3720	12700	3720	-	-	25400	7440	3066	13.48
	15C + 25A	12700	3720	12700	6740	-	-	25400	10460	4221	19.85
	15C + 15C + 25A	12700	3720	12700	3720	23000	6740	48400	14180	5640	26.10
101525A	10C	9500	2780	-	-	-	-	9500	2780	1080	4.98
	15C	12700	3720	-	-	-	-	12700	3720	1647	7.23
	25A	23000	6740	-	-	-	-	23000	6740	2802	13.60
	10C + 15C	9500	2780	9500	3720	-	-	19000	6500	2499	11.23
	10C + 25A	9500	2780	9500	6740	-	-	19000	9520	3654	17.60
	15C + 25A	12700	3720	12700	6740	-	-	25400	10460	4221	19.85
	10C + 15C + 25A	9500	2780	9500	3720	23000	6740	42000	13240	5073	23.85

## Capacity Data - Cooling Only (R22)

OUTDOOR OPERATING UNIT (MMST)	INDOOR OPERATING UNIT (MCC)	NOMINAL INDIVIDUAL CAPACITY						NOMINAL TOTAL CAPACITY	NOMINAL TOTAL INPUT POWER	NOMINAL RUNNING CURRENT	
		A		B		C					
		Btu/h	W	Btu/h	W	Btu/h	W	Btu/h	W	W	A
101010A	10C	9500	2780	-	-	-	-	9500	2780	1092	5.03
	10C + 10C	9500	2780	9500	2780	-	-	19000	5560	1956	9.08
	10C + 10C + 10C	9500	2780	9500	2780	9500	2780	28500	8340	2820	13.13
151515A	15C	12700	3720	-	-	-	-	12700	3720	1680	7.37
	15C + 15C	12700	3720	12700	3720	-	-	25400	7440	3132	13.76
	15C + 15C + 15C	12700	3720	12700	3720	12700	3720	38100	11160	4584	20.15
101015A	10C	9500	2780	-	-	-	-	9500	2780	1092	5.03
	15C	12700	3720	-	-	-	-	12700	3720	1680	7.37
	10C + 10C	9500	2780	9500	2780	-	-	19000	5560	1956	9.08
	10C + 15C	9500	2780	9500	3720	-	-	19000	6500	2544	11.42
	10C + 10C + 15C	9500	2780	9500	2780	12700	3720	31700	9280	3408	242
101515A	10C	9500	2780	-	-	-	-	9500	2780	1092	5.03
	15C	12700	3720	-	-	-	-	12700	3720	1680	7.37
	10C + 15C	9500	2780	9500	3720	-	-	19000	6500	2544	11.42
	15C + 15C	12700	3720	12700	3720	-	-	25400	7440	3132	13.76
	10C + 15C + 15C	9500	2780	9500	3720	12700	3720	31700	10220	3996	17.81
101020A	10C	9500	2780	-	-	-	-	9500	2780	1092	5.03
	20C	18000	5280	-	-	-	-	18000	5280	2334	10.60
	10C + 10C	9500	2780	9500	2780	-	-	19000	5560	1956	9.08
	10C + 20C	9500	2780	9500	5280	-	-	19000	8060	3198	14.65
	10C + 10C + 20C	9500	2780	9500	2780	18000	5280	37000	10840	4062	18.70
101025A	10C	9500	2780	-	-	-	-	9500	2780	1092	5.03
	25C	23000	6740	-	-	-	-	23000	6740	2810	13.65
	10C + 10C	9500	2780	9500	2780	-	-	19000	5560	1956	9.08
	10C + 25C	9500	2780	9500	6740	-	-	19000	9520	3674	17.70
	10C + 10C + 25C	9500	2780	9500	2780	23000	6740	42000	12300	4538	21.75
151525A	15C	12700	3720	-	-	-	-	12700	3720	1680	7.37
	25C	23000	6740	-	-	-	-	23000	6740	2810	13.65
	15C + 15C	12700	3720	12700	3720	-	-	25400	7440	3132	13.76
	15C + 25C	12700	3720	12700	6740	-	-	25400	10460	4262	20.04
	15C + 15C + 25C	12700	3720	12700	3720	23000	6740	48400	14180	5714	26.43
101525A	10C	9500	2780	-	-	-	-	9500	2780	1092	5.03
	15C	12700	3720	-	-	-	-	12700	3720	1680	7.37
	25C	23000	6740	-	-	-	-	23000	6740	2810	13.65
	10C + 15C	9500	2780	9500	3720	-	-	19000	6500	2544	11.42
	10C + 25C	9500	2780	9500	6740	-	-	19000	9520	3674	17.70
	15C + 25C	12700	3720	12700	6740	-	-	25400	10460	4262	20.04
	10C + 15C + 25C	9500	2780	9500	3720	23000	6740	42000	13240	5126	24.09

**MMSH**
**General Data - Cooling Only (R22)**

MODEL			OUTDOOR UNIT		MMSH8K8A	MMSHK77A	
			INDOOR UNIT		2 x MWM010G	2 x MWM015G	
NOMINAL CAPACITY			Btu/h		16600 (8300 - 16600)	14600 (12300 - 14600)	
			W		4860 (2430 - 4860)	4280 (3600 - 4280)	
NOMINAL TOTAL INPUT POWER			W		1498 (827 - 1498)	1423 (1382 - 1423)	
NOMINAL RUNNING CURRENT			A		6.34 (3.55 - 6.34)	6.50 (6.04 - 6.50)	
EER			W/W		3.25	3.01	
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50			
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE			
INDOOR UNIT	CONTROL		AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)		
			OPERATION		WIRELESS HANDSET		
	AIR FLOW		HIGH	l/s / cfm	141.60 / 300	162.82 / 345	
			MEDIUM	l/s / cfm	117.99 / 250	134.51 / 285	
			LOW	l/s / cfm	94.39 / 200	103.83 / 220	
	EXTERNAL STATIC PRESSURE (H/M/L)			Pa/in.wg.	N/A		
	SOUND PRESSURE LEVEL (H/M/L)			dBA	39 / 34 / 28	42 / 36 / 29	
	UNIT DIMENSION		HEIGHT	mm/in	260 / 10.2		
			WIDTH	mm/in	899 / 35.4		
			DEPTH	mm/in	198 / 7.8		
	PACKING DIMENSION		HEIGHT	mm/in	337 / 13.3		
			WIDTH	mm/in	957 / 37.7		
			DEPTH	mm/in	270 / 10.6		
	UNIT WEIGHT			kg/lb	12 / 26.46		
	CONDENSATE DRAIN SIZE			mm/in	16 / 0.63		
OUTDOOR UNIT	AIR FLOW		l/s / cfm	660.8 / 1400		250.0 / 900	
	SOUND PRESSURE LEVEL		dBA	56		50	
	UNIT DIMENSION		HEIGHT	mm/in	646 / 25.4		494 / 19.4
			WIDTH	mm/in	840 / 33.1		740 / 29.1
			DEPTH	mm/in	330 / 13.0		270 / 10.6
	PACKING DIMENSION		HEIGHT	mm/in	710 / 28.0		558 / 22.0
			WIDTH	mm/in	982 / 38.7		851 / 33.5
			DEPTH	mm/in	461 / 18.1		401 / 15.8
	UNIT WEIGHT			kg/lb	62 / 136.7		35 / 77.2
	PIPE CONNECTION		TYPE		FLARE VALVE		
			SIZE	LIQUID	mm/in	2 x 6.35 / 2 x 1/4	
				GAS	mm/in	2 x 9.52 / 2 x 3/8	
REFRIGERANT CHARGE			kg/lb	2 x 0.675 / 2 x 1.49		0.825 / 1.82	

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

## General Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMSH8K66A	MMSH66K66A
	INDOOR UNIT			3 x MWM010G	4 x MWM010G
NOMINAL CAPACITY			Btu/h	20900 (8100 - 12800)	25600 (10000 - 25600)
			W	6120 (2370 - 6120)	7500 (2930 - 7500)
NOMINAL TOTAL INPUT POWER			W	1943 (847 - 1943)	2370 (1196 - 2370)
NOMINAL RUNNING CURRENT			A	8.35 (3.63 - 8.35)	10.20 (5.20 - 10.20)
EER			W/W	3.15	3.16
POWER SOURCE			V/Ph/Hz	220 ~ 240 / 1 / 50	
REFRIGERANT TYPE / CONTROL				R22 / CAPILLARY TUBE	
INDOOR UNIT	CONTROL	AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)	
		OPERATION		WIRELESS HANDSET	
	AIR FLOW	HIGH	l/s / cfm	141.60 / 300	
		MEDIUM	l/s / cfm	117.99 / 250	
		LOW	l/s / cfm	94.39 / 200	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa/in.wg.	N/A	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	39 / 34 / 28	
	UNIT DIMENSION	HEIGHT	mm/in	260 / 10.2	
		WIDTH	mm/in	899 / 35.4	
		DEPTH	mm/in	198 / 7.8	
	PACKING DIMENSION	HEIGHT	mm/in	337 / 13.3	
		WIDTH	mm/in	957 / 37.7	
		DEPTH	mm/in	270 / 10.6	
	UNIT WEIGHT		kg/lb	12 / 26.46	
	CONDENSATE DRAIN SIZE		mm/in	16 / 0.63	
OUTDOOR UNIT	AIR FLOW		l/s / cfm	660.8 / 1400	
	SOUND PRESSURE LEVEL		dBA	56	
	UNIT DIMENSION	HEIGHT	mm/in	646 / 25.4	
		WIDTH	mm/in	840 / 33.1	
		DEPTH	mm/in	330 / 13.0	
	PACKING DIMENSION	HEIGHT	mm/in	710 / 28.0	
		WIDTH	mm/in	982 / 38.7	
		DEPTH	mm/in	461 / 18.1	
	UNIT WEIGHT		kg/lb	63 / 138.9	64 / 141.1
	PIPE CONNECTION	TYPE		FLARE VALVE	
		SIZE	LIQUID	mm/in	3 x 6.35 / 3 x 1/4
			GAS	mm/in	4 x 6.35 / 4 x 1/4
	REFRIGERANT CHARGE			3 x 9.52 / 3 x 3/8	4 x 9.52 / 4 x 3/8
				(0.925 / 2.04) (0.675 / 1.49)	2 x 0.825 / 2 x 1.82

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3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

## General Data - Cooling Only (R22)

MODEL			OUTDOOR UNIT		MMSH66K555A				
			INDOOR UNIT		4 x MWM010G		MWM015G		
NOMINAL CAPACITY			Btu/h		26500 (6000 - 26500)				
			W		7770 (1760 - 7770)				
NOMINAL TOTAL INPUT POWER			W		2631 (1233 - 2631)				
NOMINAL RUNNING CURRENT			A		11.50 (5.38 - 11.50)				
EER			W/W		2.95				
POWER SOURCE			V/Ph/Hz		220 ~ 240 / 1 / 50				
REFRIGERANT TYPE / CONTROL					R22 / CAPILLARY TUBE				
INDOOR UNIT	CONTROL		AIR DISCHARGE		DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT)				
			OPERATION		WIRELESS HANDSET				
	AIR FLOW		HIGH	l/s / cfm	141.60 / 300		162.82 / 345		
			MEDIUM	l/s / cfm	117.99 / 250		134.51 / 285		
			LOW	l/s / cfm	94.39 / 200		103.83 / 220		
	EXTERNAL STATIC PRESSURE (H/M/L)			Pa/in.wg.	N/A				
	SOUND PRESSURE LEVEL (H/M/L)			dBA	39 / 34 / 28		42 / 36 / 29		
	UNIT DIMENSION		HEIGHT	mm/in	260 / 10.2				
			WIDTH	mm/in	899 / 35.4				
			DEPTH	mm/in	198 / 7.8				
	PACKING DIMENSION		HEIGHT	mm/in	337 / 13.3				
			WIDTH	mm/in	957 / 37.7				
			DEPTH	mm/in	270 / 10.6				
	UNIT WEIGHT			kg/lb	12 / 26.46				
	CONDENSATE DRAIN SIZE			mm/in	16 / 0.63				
OUTDOOR UNIT	AIR FLOW		l/s / cfm	660.8 / 1400					
	SOUND PRESSURE LEVEL		dBA	56					
	UNIT DIMENSION		HEIGHT	mm/in	646 / 25.4				
			WIDTH	mm/in	840 / 33.1				
			DEPTH	mm/in	330 / 13.0				
	PACKING DIMENSION		HEIGHT	mm/in	710 / 28.0				
			WIDTH	mm/in	982 / 38.7				
			DEPTH	mm/in	461 / 18.1				
	UNIT WEIGHT			kg/lb	65 / 143.3				
	PIPE CONNECTION		TYPE		FLARE VALVE				
			SIZE	LIQUID	mm/in	5 x 6.35 / 5 x 1/4			
				GAS	mm/in	4 x 9.52 / 4 x 3/8		12.7 / 1/2	
REFRIGERANT CHARGE			kg/lb	0.875 / 1.93		0.925 / 2.04			

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3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMSH8K8A		MMSHK77A		
	INDOOR UNIT			2 x MWM010G		2 x MWM015G		
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL				
	QUANTITY			1				
	MATERIAL			ASG30				
	DRIVE			DIRECT				
	DIAMETER		mm/in	97 / 3.82				
	LENGTH		mm/in	717.5 / 28.25				
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR			
QUANTITY			1					
INDEX OF PROTECTION (IP)			IP24					
OUTDOOR FAN	TYPE			PROPELLER				
	QUANTITY			1				
	MATERIAL			GLASS REINFORCED ACRYL STYRENE RESIN				
	DRIVE			DIRECT				
	DIAMETER		mm/in	406.4 / 16		355.6 / 14		
OUTDOOR FAN MOTOR	TYPE			INDUCTION MOTOR				
	QUANTITY			1				
	INDEX OF PROTECTION (IP)			N/A				
COMPRESSOR	TYPE			ROTARY				
	QUANTITY			2		1		
	OIL TYPE			ATMOS M60 / SUNISO 4GDID				
	OIL AMOUNT		cm <sup>3</sup> /fl.oz.	350 / 11.8				
	INDOOR COIL	TUBE	MATERIAL		S.I.G.C.			
DIAMETER			mm/in	7 / 0.28				
THICKNESS			mm/in	0.28 / 0.011				
FIN		MATERIAL		ALUMINIUM				
		THICKNESS		mm/in	0.11 / 0.004			
		FACE AREA		m <sup>2</sup> /ft <sup>2</sup>	0.193 / 2.08			
		ROW		2				
		FIN PER INCH		18				
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.				
		DIAMETER		mm/in	9.52 / 3/8			
		THICKNESS		mm/in	0.33 / 0.013			
	FIN	MATERIAL		ALUMINIUM				
		THICKNESS		mm/in	0.11 / 0.004			
		FACE AREA		m <sup>2</sup> /ft <sup>2</sup>	0.51 / 5.53		0.32 / 3.50	
		ROW		2		1		
		FIN PER INCH		16		19		
AIR QUALITY	FILTER	TYPE		NANO FILTER				
		QUANTITY		pc	2			
		SIZE	LENGTH	mm/in	304 / 11.9			
			WIDTH	mm/in	348 / 13.7			
			THICKNESS	mm/in	1.5 / 0.06			
	NEGATIVE IONIZER			YES				
CASING	INDOOR UNIT		MATERIAL	HIPS				
			COLOUR	IVORY				
	OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL				
			FINISHING	EPOXY-POLYESTER POWDER				
			COLOUR	LIGHT GREY				

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.



## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMSH8K66A	MMSH66K66A	
	INDOOR UNIT			3 x MWM010G	4 x MWM010G	
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL		
	QUANTITY			1		
	MATERIAL			ASG30		
	DRIVE			DIRECT		
	DIAMETER	mm/in		97 / 3.82		
	LENGTH	mm/in		717.5 / 28.25		
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR	
QUANTITY			1			
INDEX OF PROTECTION (IP)			IP24			
OUTDOOR FAN	TYPE			PROPELLER		
	QUANTITY			1		
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN		
	DRIVE			DIRECT		
	DIAMETER	mm/in		406.4 / 16		
OUTDOOR FAN MOTOR	TYPE			INDUCTION MOTOR		
	QUANTITY			1		
	INDEX OF PROTECTION (IP)			N/A		
COMPRESSOR	TYPE			ROTARY		
	QUANTITY			2	2	
	OIL TYPE			ATMOS M60 / SUNISO 4GDID		
	OIL AMOUNT		cm <sup>3</sup> /fl.oz.	350 / 11.8		
	INDOOR COIL	TUBE	MATERIAL		S.I.G.C.	
DIAMETER			mm/in	7 / 0.28		
THICKNESS			mm/in	0.28 / 0.011		
FIN		MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.193 / 2.08		
		ROW		2		
		FIN PER INCH		18		
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.		
		DIAMETER	mm/in	9.52 / 3/8		
		THICKNESS	mm/in	0.33 / 0.013		
	FIN	MATERIAL		ALUMINIUM		
		THICKNESS	mm/in	0.11 / 0.004		
		FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.51 / 5.53		
		ROW		2		
		FIN PER INCH		16		
AIR QUALITY	FILTER	TYPE		NANO FILTER		
		QUANTITY		2		
		SIZE	LENGTH	mm/in	304 / 11.9	
			WIDTH	mm/in	348 / 13.7	
			THICKNESS	mm/in	1.5 / 0.06	
	NEGATIVE IONIZER			YES		
	CASING	INDOOR UNIT		MATERIAL	HIPS	
COLOUR				IVORY		
OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL			
		FINISHING	EPOXY-POLYESTER POWDER			
		COLOUR	LIGHT GREY			

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

## Components Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT			MMSH66K555A	
	INDOOR UNIT			4 x MWM010G	MWM015G
INDOOR FAN	TYPE			CROSS FLOW TANGENTIAL	
	QUANTITY			1	
	MATERIAL			ASG30	
	DRIVE			DIRECT	
	DIAMETER		mm/in	97 / 3.82	
	LENGTH		mm/in	717.5 / 28.25	
	INDOOR FAN MOTOR	TYPE			INDUCTION MOTOR
QUANTITY			1		
INDEX OF PROTECTION (IP)			IP24		
OUTDOOR FAN	TYPE			PROPELLER	
	QUANTITY			1	
	MATERIAL			GLASS REINFORCED ACRLY STYRENE RESIN	
	DRIVE			DIRECT	
	DIAMETER		mm/in	406.4 / 16	
OUTDOOR FAN MOTOR	TYPE			INDUCTION MOTOR	
	QUANTITY			1	
	INDEX OF PROTECTION (IP)			N/A	
COMPRESSOR	TYPE			ROTARY	
	QUANTITY			2	
	OIL TYPE			ATMOS M60 / SUNISO 4GDID	
	OIL AMOUNT		cm³/fl.oz.	350 / 11.8	
	INDOOR COIL	TUBE	MATERIAL		S.I.G.C.
DIAMETER			mm/in	7 / 0.28	
THICKNESS			mm/in	0.28 / 0.011	
FIN		MATERIAL		ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.004	
		FACE AREA	m²/ft²	0.193 / 2.08	
		ROW		2	
		FIN PER INCH		18	
OUTDOOR COIL	TUBE	MATERIAL		S.I.G.C.	
		DIAMETER	mm/in	9.52 / 3/8	
		THICKNESS	mm/in	0.33 / 0.013	
	FIN	MATERIAL		ALUMINIUM	
		THICKNESS	mm/in	0.11 / 0.004	
		FACE AREA	m²/ft²	0.51 / 5.53	
		ROW		2	
		FIN PER INCH		16	
AIR QUALITY	FILTER	TYPE		NANO FILTER	
		QUANTITY		pc	2
		SIZE	LENGTH	mm/in	304 / 11.9
			WIDTH	mm/in	348 / 13.7
			THICKNESS	mm/in	1.5 / 0.06
	NEGATIVE IONIZER			YES	
	CASING	INDOOR UNIT		MATERIAL	HIPS
COLOUR				IVORY	
OUTDOOR UNIT		MATERIAL	GALVANISED MILD STEEL		
		FINISHING	EPOXY-POLYESTER POWDER		
		COLOUR	LIGHT GREY		

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2) S.I.G.C. - SEAMLESS INNER GROOVED COPPER.

## Capacity Data - Cooling Only (R22)

OUTDOOR OPERATING UNIT (MMSH)	INDOOR OPERATING UNIT (MWM)	NOMINAL INDIVIDUAL CAPACITY										NOMINAL TOTAL CAPACITY		NOMINAL TOTAL INPUT POWER	NOMINAL RUNNING CURRENT
		A1		A2		A3		B1		B2					
		Btu/h	W	Btu/h	W	Btu/h	W	Btu/h	W	Btu/h	W	Btu/h	W	W	A
8K8A	010G	8300	2430	-	-	-	-	-	-	-	-	8300	2430	827	3.55
	010G	-	-	-	-	-	-	8300	2430	-	-	8300	2430	827	3.55
	010G + 010G	8300	2430	-	-	-	-	8300	2430	-	-	16600	4860	1498	6.34
K77A	015G	12300	3600	-	-	-	-	-	-	-	-	12300	3600	1382	6.04
	015G	-	-	12300	3600	-	-	-	-	-	-	12300	3600	1382	6.04
	015G + 015G	7300	2140	7300	2140	-	-	-	-	-	-	14600	4280	1423	6.50
8K66A	010G	10000	2930	-	-	-	-	-	-	-	-	10000	2930	1167	5.03
	010G	-	-	10000	2930	-	-	-	-	-	-	10000	2930	1167	5.03
	010G	-	-	-	-	-	-	8100	2370	-	-	8100	2370	847	3.63
	010G + 010G	6400	1875	6400	1875	-	-	-	-	-	-	12800	3750	1339	5.77
	010G + 010G	10000	2930	-	-	-	-	8100	2370	-	-	18100	5300	1844	7.94
	010G + 010G	-	-	10000	2930	-	-	8100	2370	-	-	18100	5300	1844	7.94
	010G + 010G + 010G	6400	1875	6400	1875	-	-	8100	2370	-	-	20900	6120	1943	8.35
66K66A	010G	10000	2930	-	-	-	-	-	-	-	-	10000	2930	1196	5.20
	010G	-	-	10000	2930	-	-	-	-	-	-	10000	2930	1196	5.20
	010G	-	-	-	-	-	-	10000	2930	-	-	10000	2930	1196	5.20
	010G	-	-	-	-	-	-	-	-	10000	2930	10000	2930	1196	5.20
	010G + 010G	6400	1875	6400	1875	-	-	-	-	-	-	12800	3750	1388	6.03
	010G + 010G	-	-	-	-	-	-	6400	1875	6400	1875	12800	3750	1388	6.03
	010G + 010G	10000	2930	-	-	-	-	10000	2930	-	-	20000	5860	2222	9.68
	010G + 010G	10000	2930	-	-	-	-	-	-	10000	2930	20000	5860	2222	9.68
	010G + 010G	-	-	10000	2930	-	-	10000	2930	-	-	20000	5860	2222	9.68
	010G + 010G	-	-	10000	2930	-	-	-	-	10000	2930	20000	5860	2222	9.68
	010G + 010G + 010G	6400	1875	6400	1875	-	-	10000	2930	-	-	22800	6680	2296	9.94
	010G + 010G + 010G	6400	1875	6400	1875	-	-	-	-	10000	2930	22800	6680	2296	9.94
	010G + 010G + 010G	10000	2930	-	-	-	-	6400	1875	6400	1875	22800	6680	2296	9.94
	010G + 010G + 010G	-	-	10000	2930	-	-	6400	1875	6400	1875	22800	6680	2296	9.94
	010G + 010G + 010G + 010G	6400	1875	6400	1875	-	-	6400	1875	6400	1875	25600	7500	2370	10.20

## Capacity Data - Cooling Only (R22)

OUTDOOR OPERATING UNIT (MMSH)	INDOOR OPERATING UNIT (MWM)	NOMINAL INDIVIDUAL CAPACITY										NOMINAL TOTAL CAPACITY		NOMINAL TOTAL INPUT POWER	NOMINAL RUNNING CURRENT
		A1		A2		A3		B1		B2					
		Btu/h	W	Btu/h	W	Btu/h	W	Btu/h	W	Btu/h	W	Btu/h	W	W	A
66K555A	010G	10000	2930	-	-	-	-	-	-	-	-	10000	2930	1233	5.38
	010G	-	-	10000	2930	-	-	-	-	-	-	10000	2930	1233	5.38
	010G	-	-	-	-	10000	2930	-	-	-	-	10000	2930	1233	5.38
	010G	-	-	-	-	-	-	10000	2930	-	-	10000	2930	1233	5.38
	015G	-	-	-	-	-	-	-	-	12000	3520	12000	3520	1239	5.41
	010G + 010G	6400	1875	6400	1875	-	-	-	-	-	-	12800	3750	1298	5.58
	010G + 010G	6400	1875	-	-	6400	1875	-	-	-	-	12800	3750	1298	5.58
	010G + 010G	-	-	6400	1875	6400	1875	-	-	-	-	12800	3750	1298	5.58
	010G + 010G	10000	2930	-	-	-	-	10000	2930	-	-	20000	5860	2466	10.76
	010G + 010G	-	-	10000	2930	-	-	10000	2930	-	-	20000	5860	2466	10.76
	010G + 010G	-	-	-	-	10000	2930	10000	2930	-	-	20000	5860	2466	10.76
	010G + 015G	10000	2930	-	-	-	-	-	-	12000	3520	22000	6450	2472	10.79
	010G + 015G	-	-	10000	2930	-	-	-	-	12000	3520	22000	6450	2472	10.79
	010G + 015G	-	-	-	-	10000	2930	-	-	12000	3520	22000	6450	2472	10.79
	010G + 015G	-	-	-	-	-	-	6000	1760	7000	2050	13000	3810	1307	5.76
	010G + 010G + 010G	4500	1320	4500	1320	4500	1320	-	-	-	-	13500	3960	1324	5.74
	010G + 010G + 010G	-	-	6400	1875	6400	1875	10000	2930	-	-	22800	6680	2531	10.96
	010G + 010G + 010G	6400	1875	-	-	6400	1875	10000	2930	-	-	22800	6680	2531	10.96
	010G + 010G + 010G	6400	1875	6400	1875	-	-	10000	2930	-	-	22800	6680	2531	10.96
	010G + 010G + 015G	-	-	6400	1875	6400	1875	-	-	12000	3520	24800	7270	2537	10.99
	010G + 010G + 015G	6400	1875	-	-	6400	1875	-	-	12000	3520	24800	7270	2537	10.99
	010G + 010G + 015G	6400	1875	6400	1875	-	-	-	-	12000	3520	24800	7270	2537	10.99
	010G + 010G + 015G	-	-	-	-	10000	2930	6000	1760	7000	2050	23000	6740	2540	11.14
	010G + 010G + 015G	-	-	10000	2930	-	-	6000	1760	7000	2050	23000	6740	2540	11.14
	010G + 010G + 015G	10000	2930	-	-	-	-	6000	1760	7000	2050	23000	6740	2540	11.14
	010G + 010G + 010G + 010G	4500	1320	4500	1320	4500	1320	10000	2930	-	-	23500	6890	2557	11.12
	010G + 010G + 010G + 015G	4500	1320	4500	1320	4500	1320	-	-	12000	3520	25500	7480	2563	11.15
	010G + 010G + 010G + 015G	6400	1875	6400	1875	-	-	6000	1760	7000	2050	25800	7560	2605	11.34
	010G + 010G + 010G + 015G	6400	1875	-	-	6400	1875	6000	1760	7000	2050	25800	7560	2605	11.34
	010G + 010G + 010G + 015G	-	-	6400	1875	6400	1875	6000	1760	7000	2050	25800	7560	2605	11.34
	010G + 010G + 010G + 010G + 015G	4500	1320	4500	1320	4500	1320	6000	1760	7000	2050	26500	7770	2631	11.50

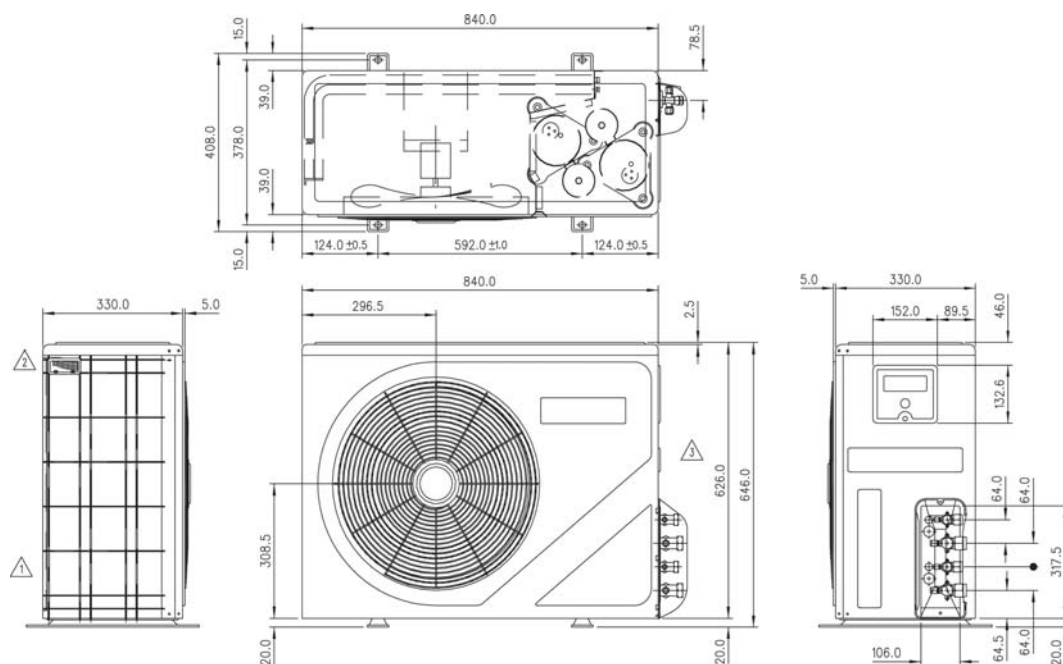
# Dimensional Data

## OUTDOOR UNIT

MODEL : MMSD 1010 / 1015 / 1515 A/AR

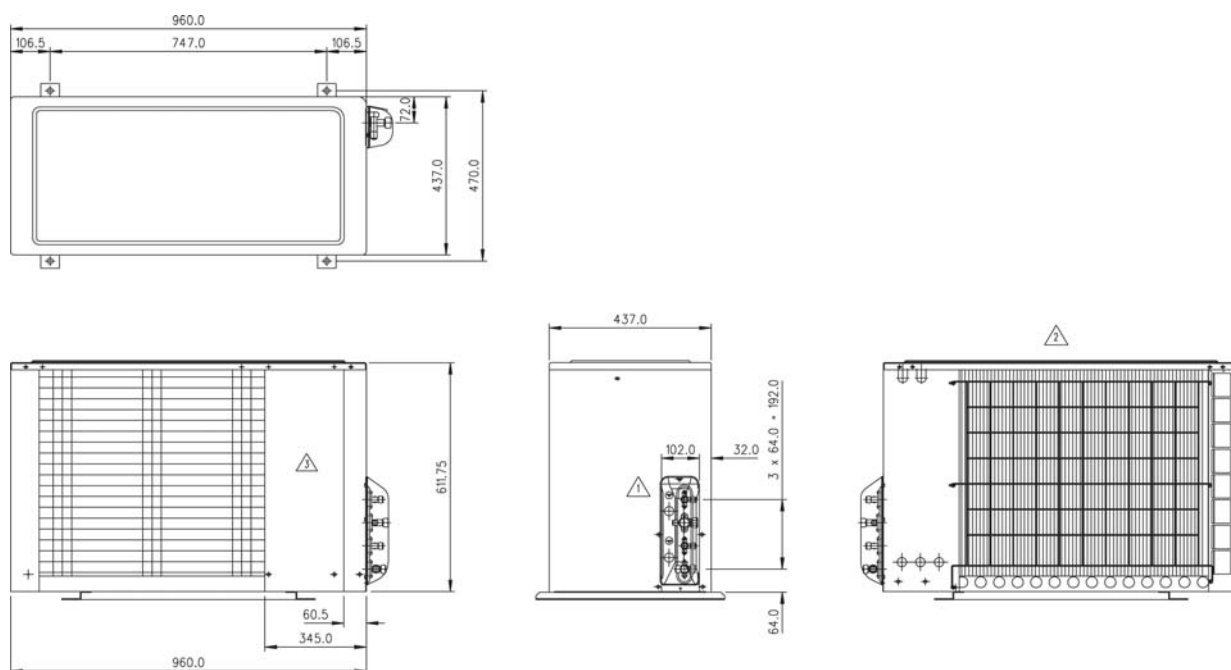
MMSD 1520AR

M4MSD 1010 / 1015 / 1515 A/AR



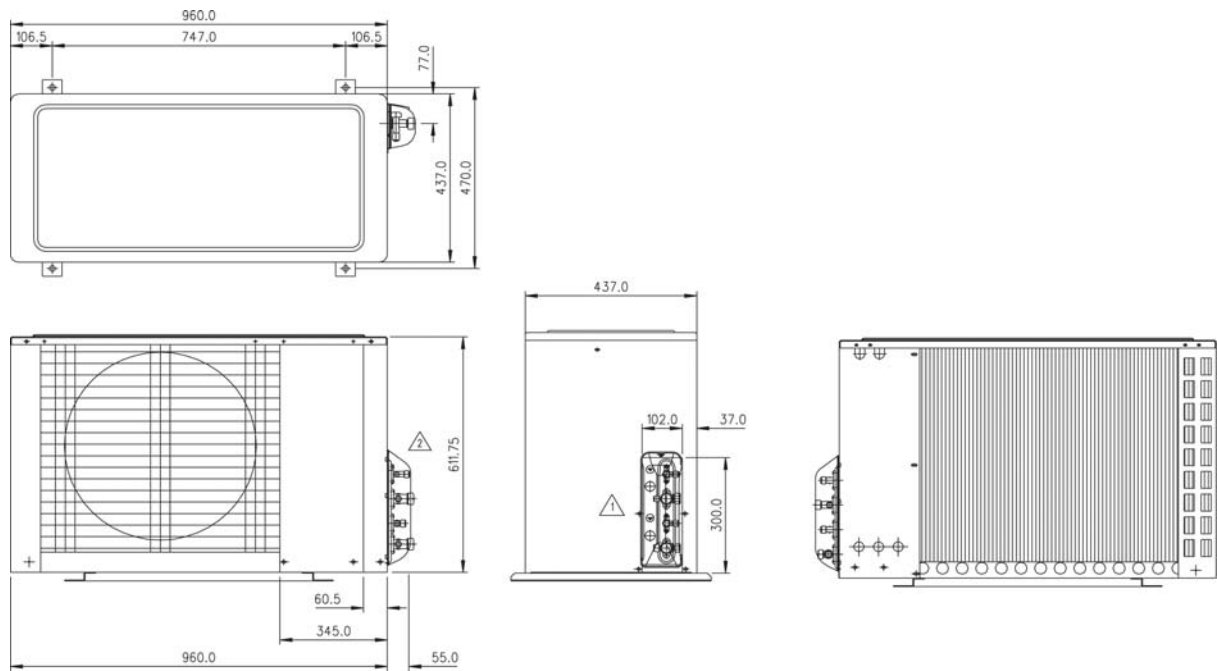
Note : Dimension in mm

MODEL : MMSD 1020 / 1520 A



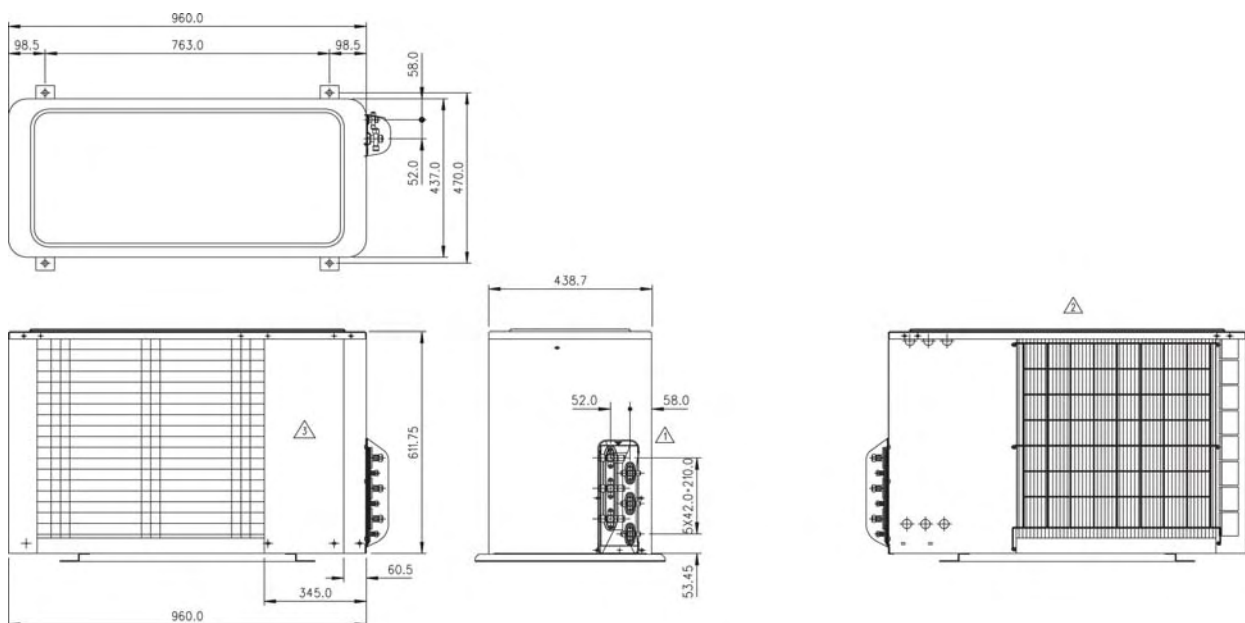
Note : Dimension in mm

## MODEL : MMSD 2020A



Note : Dimension in mm

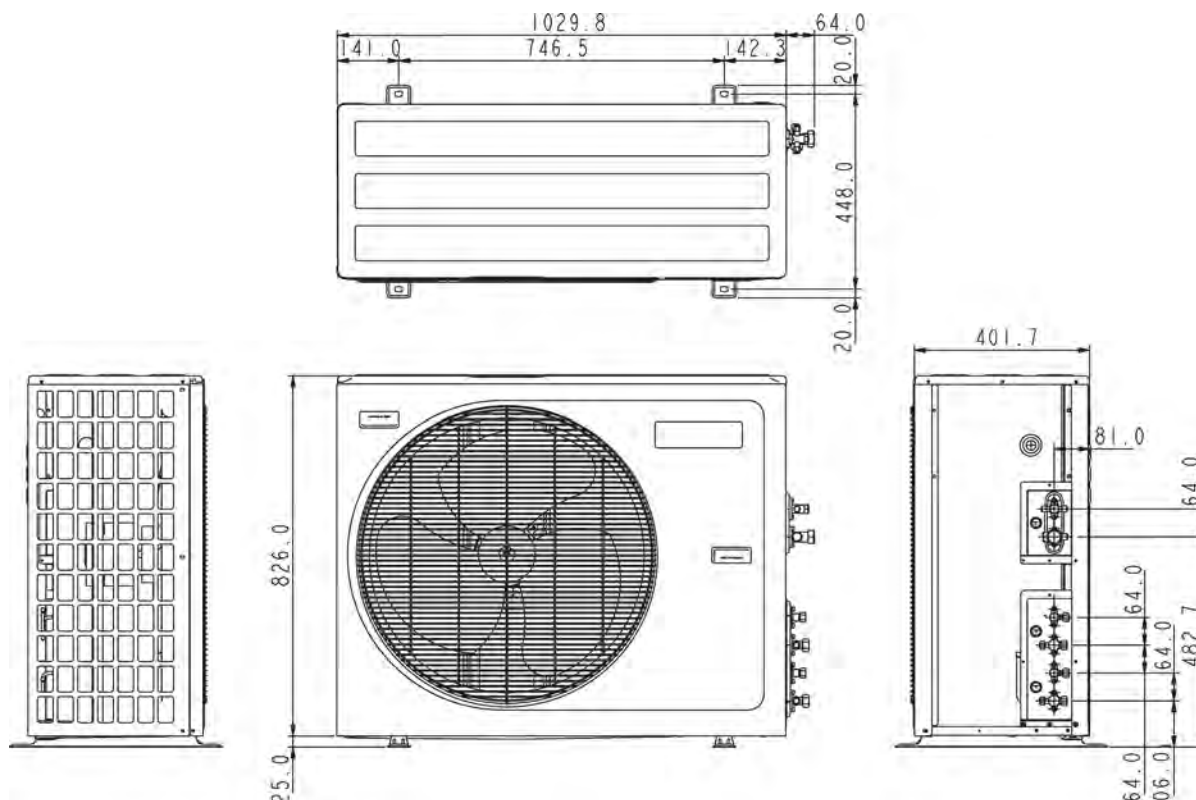
## MODEL : MMST 101010 / 101015 / 101515 / 151515 / 101020A M4MST 101010 / 101015 / 101515 / 151515 A/AR



Note : Dimension in mm

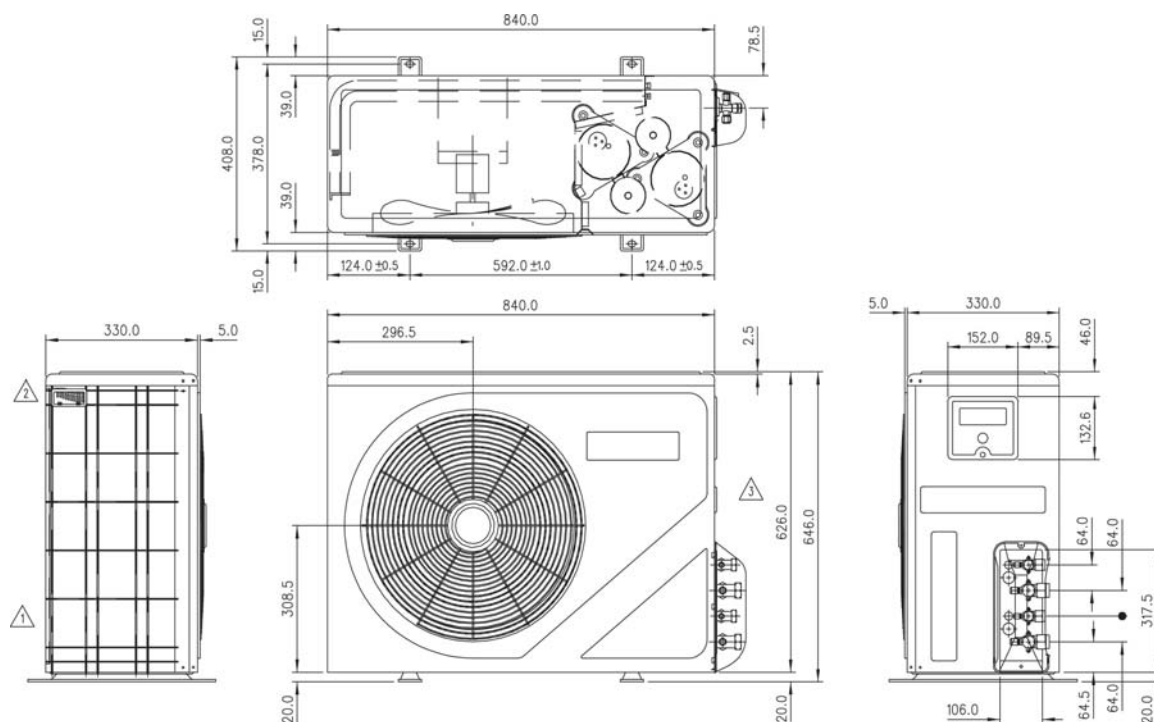


**MODEL : MMST 101025 / 101525 / 151525 / 101520 / 151520 A**



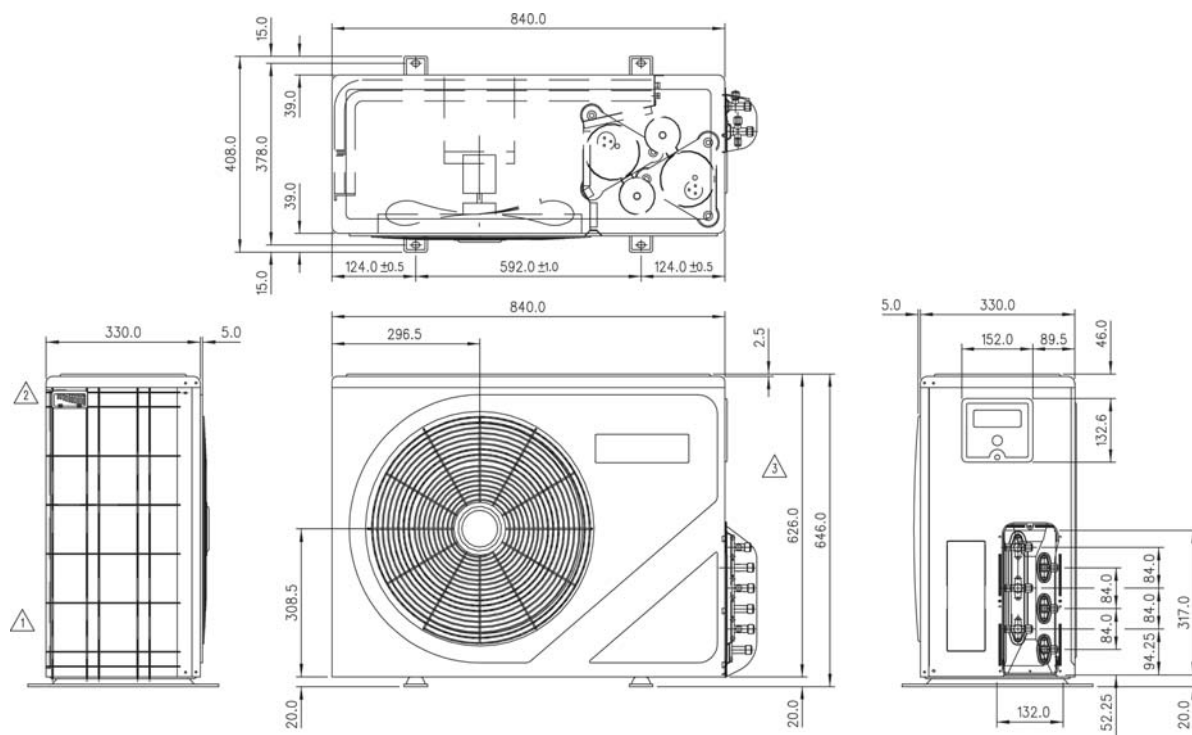
Note : Dimension in mm

**MODEL : MMSH 8K8 A**



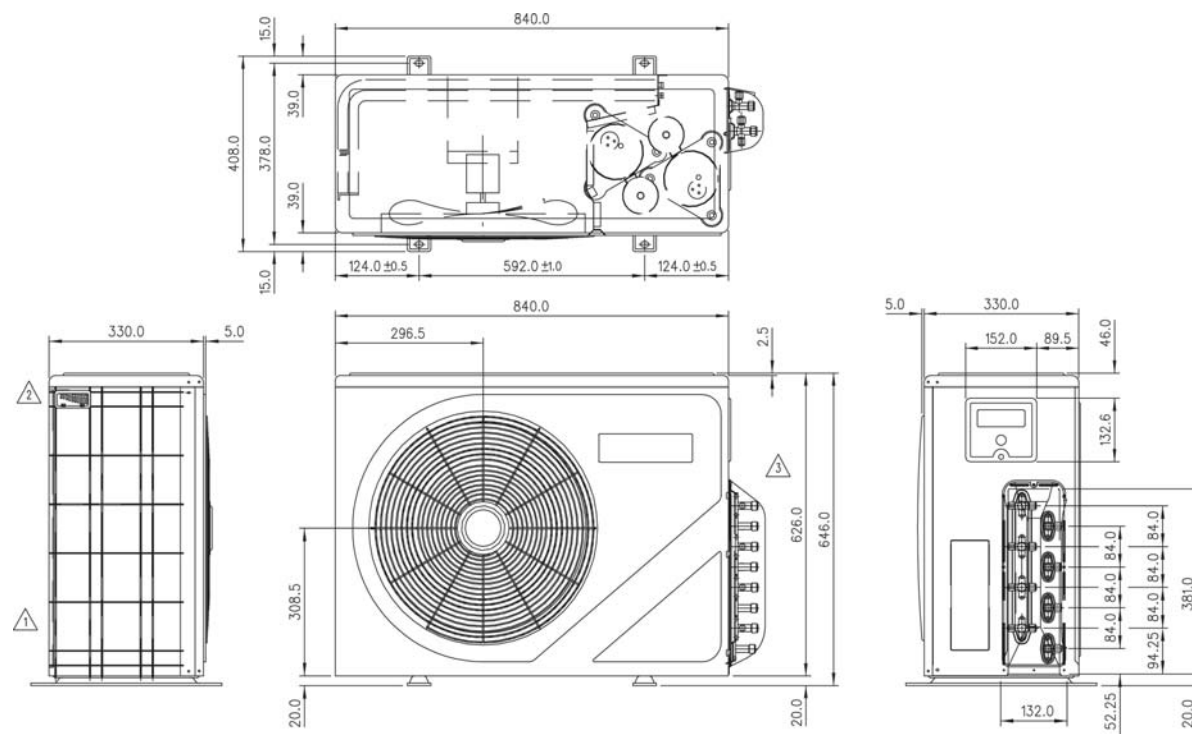
Note : Dimension in mm

## MODEL : MMSH 8K66 A



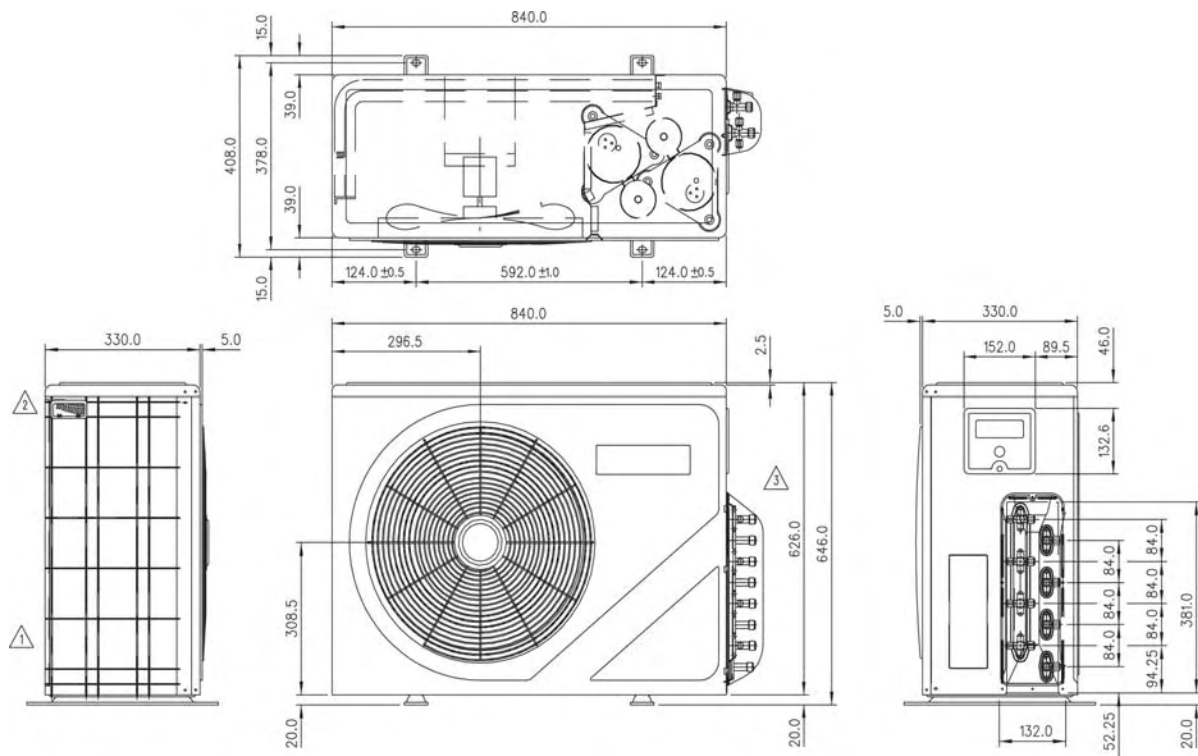
Note : Dimension in mm

## MODEL : MMSH 66K66 A



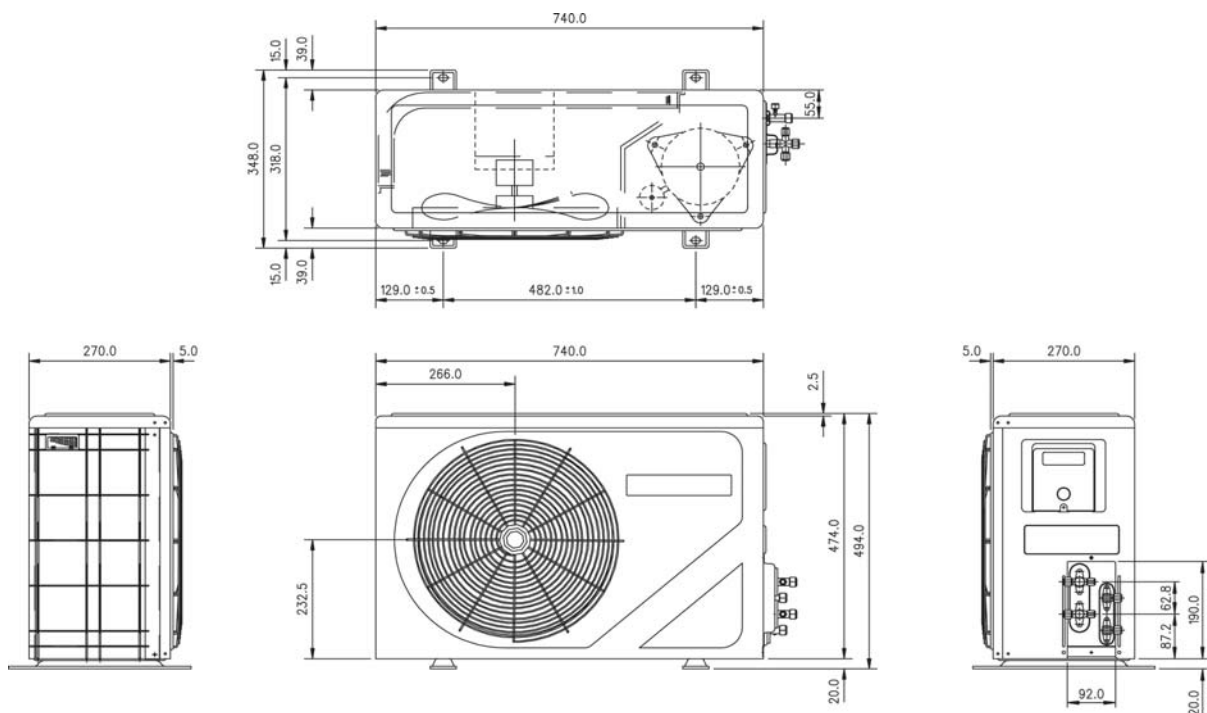
Note : Dimension in mm

## MODEL : MMSH 66K555 A



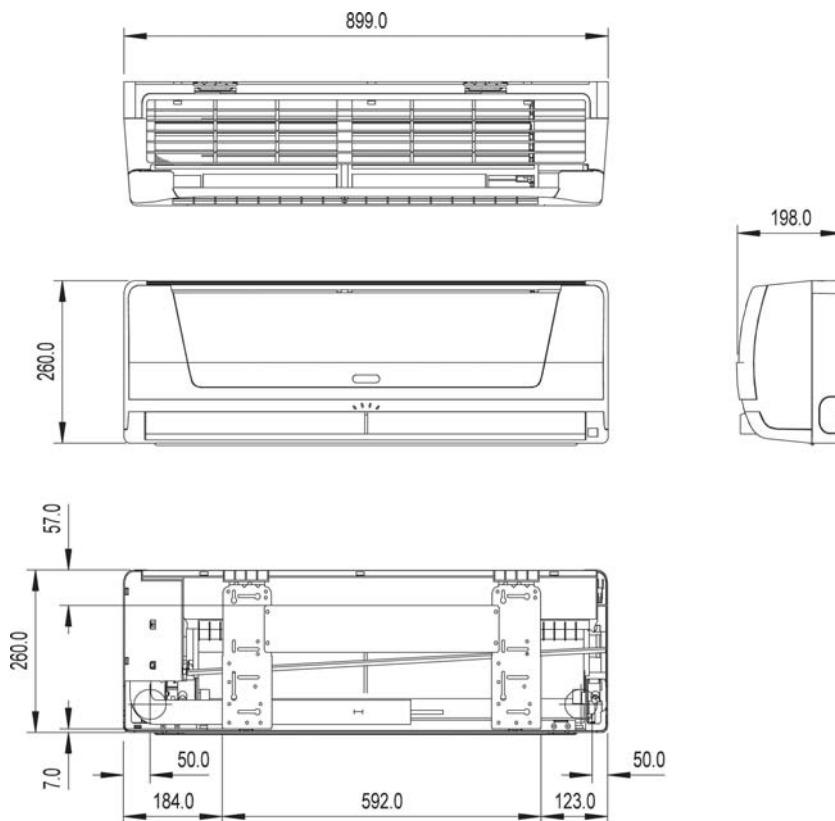
Note : Dimension in mm

## MODEL : MMSH K77 A



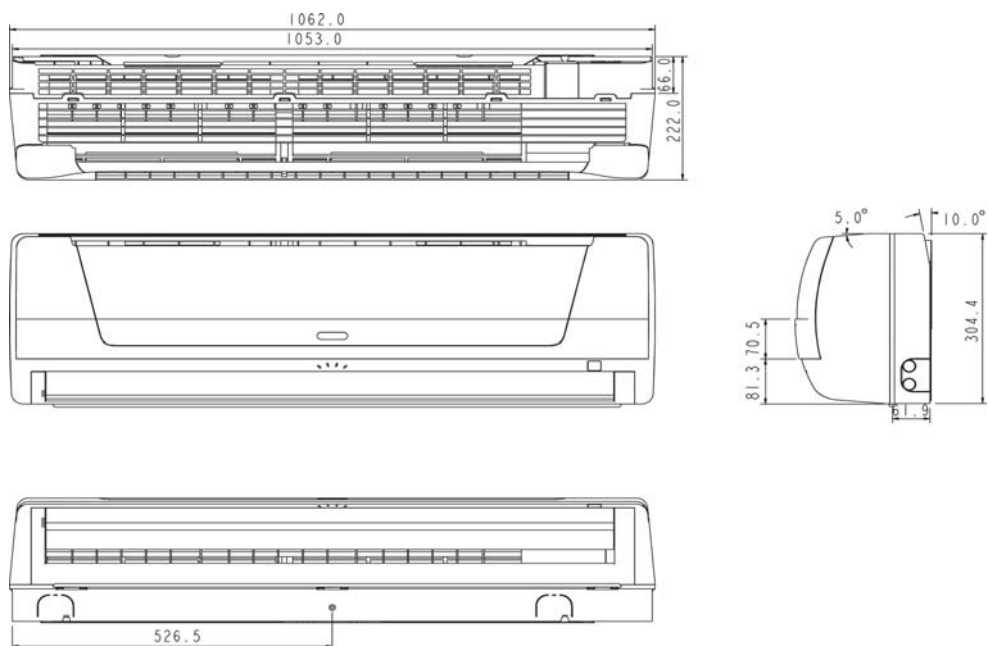
Note : Dimension in mm

**INDOOR UNIT**  
**MODEL : MWM 010/015 G/GR**



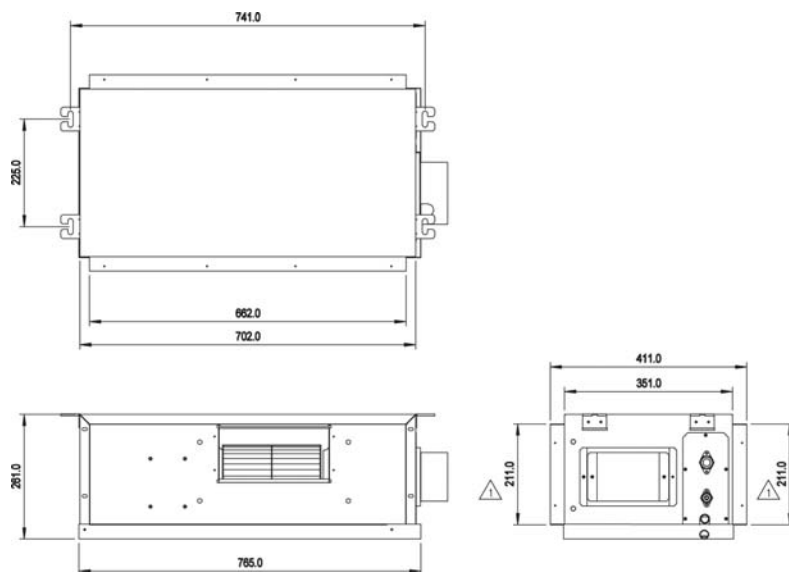
Note : Dimension in mm

**INDOOR UNIT**  
**MODEL : MWM 020/025 G/GR**



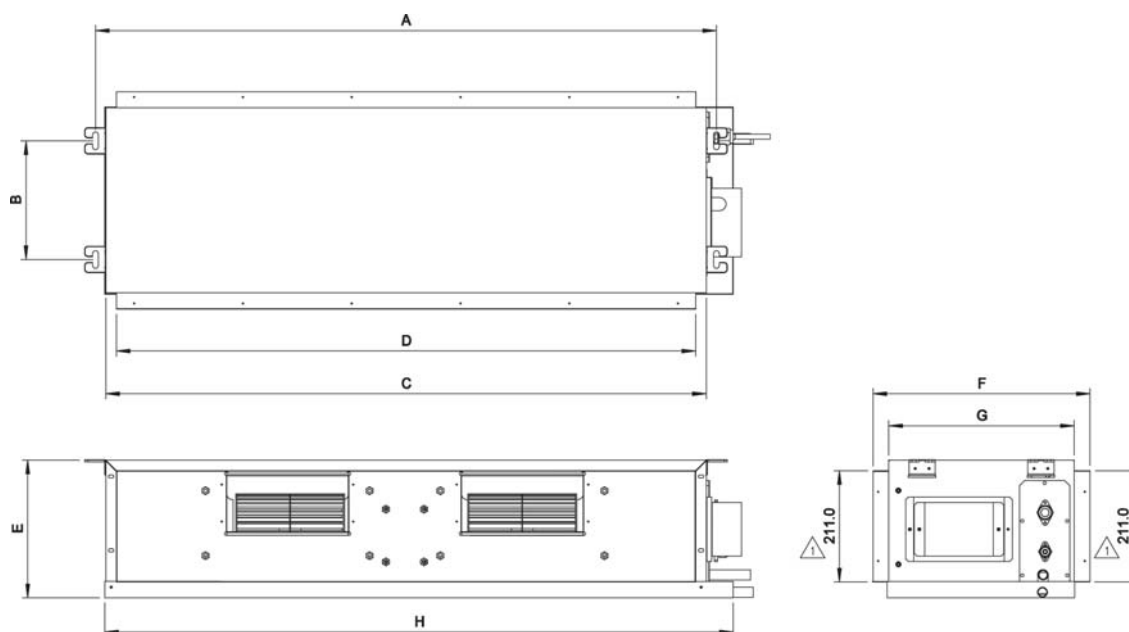
Note : Dimension in mm

**INDOOR UNIT**  
**MODEL : MCC 010C/CR**



Note : Dimension in mm

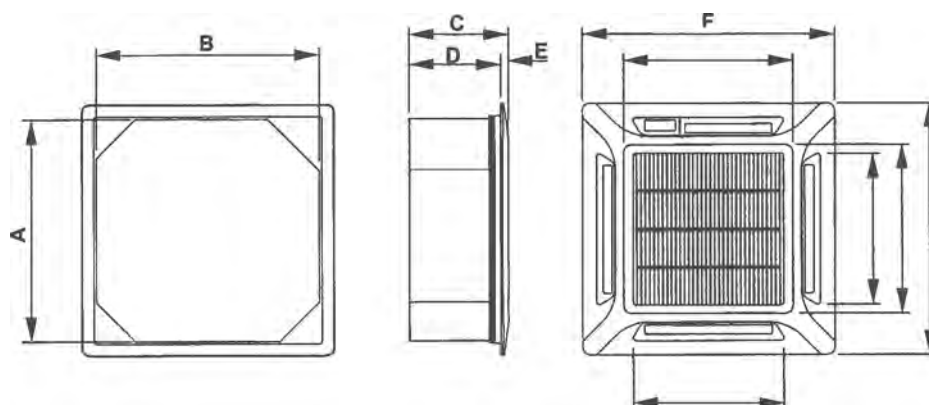
**INDOOR UNIT**  
**MODEL : MCC 015 ~ 025C/CR**



Note : Dimension in mm

MODEL	A	B	C	D	E	F	G	H
015C/CR	881	225	842	802	261	411	351	905
020C/CR	1041	225	1002	962	261	411	351	1065
025C/CR	1176	225	1137	1097	261	411	351	1200

**INDOOR UNIT**  
**MODEL : MCK 025 A**  
**MCK 010 / 015 / 020C**



Note : Dimension in mm

MODEL	A	B	C	D	E	F	G	H	I	J	K
MCK-A	820	820	378	350	28	930	930	626	626	555	555
MCK-C	570	570	295	275	20	640	640	408	408	364	364



# Electrical Data

## MMSD

### Electrical Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT		MMSD1010A	
	INDOOR UNIT		2 x MWM010G	
INDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	27	30
	RATED RUNNING CURRENT	A	0.11	0.13
	MOTOR OUTPUT	W	9	13
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	170	
	RATED RUNNING CURRENT	A	0.72	
	MOTOR OUTPUT	W	70	
COMPRESSOR	INSULATION GRADE		N/A	N/A
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	30	
	RATED INPUT POWER	W	821	1259
	RATED RUNNING CURRENT	A	3.64	5.58
	LOCKED ROTOR AMP.	A	20	25

MODEL	OUTDOOR UNIT		MMSD1015A	
	INDOOR UNIT		MWM010G	MWM015G
INDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	27	30
	RATED RUNNING CURRENT	A	0.11	0.13
	MOTOR OUTPUT	W	9	13
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	170	
	RATED RUNNING CURRENT	A	0.72	
	MOTOR OUTPUT	W	70	
COMPRESSOR	INSULATION GRADE		N/A	N/A
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	30	
	RATED INPUT POWER	W	821	1259
	RATED RUNNING CURRENT	A	3.64	5.58
	LOCKED ROTOR AMP.	A	20	25

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.  
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## Electrical Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT		MMSD1020A	
	INDOOR UNIT		MWM010G	MWM020G
INDOOR MOTOR	INSULATION GRADE		E	B
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	27	50
	RATED RUNNING CURRENT	A	0.11	0.22
	MOTOR OUTPUT	W	9	20
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	222	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	50	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	30	45
	RATED INPUT POWER	W	821	1804
	RATED RUNNING CURRENT	A	3.64	9.00
	LOCKED ROTOR AMP.	A	20	56

MODEL	OUTDOOR UNIT		MMSD1520A	
	INDOOR UNIT		MWM015G	MWM020G
INDOOR MOTOR	INSULATION GRADE		E	B
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	30	50
	RATED RUNNING CURRENT	A	0.13	0.22
	MOTOR OUTPUT	W	13	20
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	222	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	50	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	30	45
	RATED INPUT POWER	W	1259	1804
	RATED RUNNING CURRENT	A	5.58	9.00
	LOCKED ROTOR AMP.	A	25	56

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## Electrical Data - Cooling Only (R22)

MODEL	OUTDOOR UNIT		MMSD2020A
	INDOOR UNIT		2 x MWM020G
INDOOR MOTOR	INSULATION GRADE		B
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz
	RATED INPUT POWER	W	50
	RATED RUNNING CURRENT	A	0.22
	MOTOR OUTPUT	W	20
	POLES		4
OUTDOOR MOTOR	INSULATION GRADE		E
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50
	RATED INPUT POWER	W	222
	RATED RUNNING CURRENT	A	0.98
	MOTOR OUTPUT	W	150
COMPRESSOR	INSULATION GRADE		N/A
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz
	CAPACITOR (EACH COMP)	μF	45
	RATED INPUT POWER	W	1804
	RATED RUNNING CURRENT	A	9
	LOCKED ROTOR AMP.	A	56

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## Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MMSD1010A	MMSD1515A
	OUTDOOR UNIT		2 x MCC010C	2 x MCC015C
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	65	96
	RATED RUNNING CURRENT	A	0.29	0.42
	MOTOR OUTPUT	W	30	50
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	170	
	RATED RUNNING CURRENT	A	0.72	
	MOTOR OUTPUT	W	70	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	CAPACITOR	mF	30	
	RATED INPUT POWER	W	821	1259
	RATED RUNNING CURRENT	A	3.64	5.58
	LOCKED ROTOR AMP.	A	20	25

MODEL	INDOOR UNIT		MMSD1015A	
	OUTDOOR UNIT		MCC010C	MCC015C
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	65	96
	RATED RUNNING CURRENT	A	0.29	0.42
	MOTOR OUTPUT	W	30	50
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	170	
	RATED RUNNING CURRENT	A	0.72	
	MOTOR OUTPUT	W	70	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	CAPACITOR	mF	30	
	RATED INPUT POWER	W	821	1259
	RATED RUNNING CURRENT	A	3.64	5.58
	LOCKED ROTOR AMP.	A	20	25

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## Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MMSD1020A	
	OUTDOOR UNIT		MCC010C	MCC020C
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	65	135
	RATED RUNNING CURRENT	A	0.29	0.6
	MOTOR OUTPUT	W	30	80
	POLES		4	6
OUTDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	222	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	50	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	CAPACITOR	mF	30	45
	RATED INPUT POWER	W	821	1804
	RATED RUNNING CURRENT	A	3.64	9.00
	LOCKED ROTOR AMP.	A	20	56

MODEL	INDOOR UNIT		MMSD1520A	
	OUTDOOR UNIT		MCC015C	MCC020C
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	96	135
	RATED RUNNING CURRENT	A	0.42	0.6
	MOTOR OUTPUT	W	50	80
	POLES		4	6
OUTDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	222	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	50	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	CAPACITOR	mF	30	45
	RATED INPUT POWER	W	1259	1804
	RATED RUNNING CURRENT	A	5.58	9.00
	LOCKED ROTOR AMP.	A	25	56

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## Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MMSD2020A
	OUTDOOR UNIT		MCC020C
INDOOR MOTOR	INSULATION GRADE		CLASS E
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50
	RATED INPUT POWER	W	135
	RATED RUNNING CURRENT	A	0.6
	MOTOR OUTPUT	W	80
	POLES		6
OUTDOOR MOTOR	INSULATION GRADE		CLASS E
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50
	RATED INPUT POWER	W	222
	RATED RUNNING CURRENT	A	0.98
	MOTOR OUTPUT	W	50
COMPRESSOR	INSULATION GRADE		N/A
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50
	CAPACITOR	mF	45
	RATED INPUT POWER	W	1804
	RATED RUNNING CURRENT	A	9.00
	LOCKED ROTOR AMP.	A	56

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## Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MMSD1010A	MMSD1515A
	OUTDOOR UNIT		2 x MCK010C	2 x MCK015C
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	54	60
	RATED RUNNING CURRENT	A	0.23	0.27
	MOTOR OUTPUT	W	16	18
	POLES		6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	170	
	RATED RUNNING CURRENT	A	0.72	
	MOTOR OUTPUT	W	70	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	CAPACITOR	mF	30	
	RATED INPUT POWER	W	821	1259
	RATED RUNNING CURRENT	A	3.64	5.58
	LOCKED ROTOR AMP.	A	20	25

MODEL	INDOOR UNIT		MMSD1015A	
	OUTDOOR UNIT		MCK010C	MCK015C
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	54	60
	RATED RUNNING CURRENT	A	0.23	0.27
	MOTOR OUTPUT	W	16	18
	POLES		6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	170	
	RATED RUNNING CURRENT	A	0.72	
	MOTOR OUTPUT	W	70	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	CAPACITOR	mF	30	
	RATED INPUT POWER	W	821	1259
	RATED RUNNING CURRENT	A	3.64	5.58
	LOCKED ROTOR AMP.	A	20	25

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## Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MMSD1020A	
	OUTDOOR UNIT		MCK010C	MCK020C
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	54	72
	RATED RUNNING CURRENT	A	0.23	0.32
	MOTOR OUTPUT	W	16	22
	POLES		6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	222	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	50	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	CAPACITOR	mF	30	45
	RATED INPUT POWER	W	821	1804
	RATED RUNNING CURRENT	A	3.64	9.00
	LOCKED ROTOR AMP.	A	20	56

MODEL	INDOOR UNIT		MMSD1520A	
	OUTDOOR UNIT		MCK015C	MCK020C
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	60	72
	RATED RUNNING CURRENT	A	0.27	0.32
	MOTOR OUTPUT	W	18	22
	POLES		6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	222	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	50	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	CAPACITOR	mF	30	45
	RATED INPUT POWER	W	1259	1804
	RATED RUNNING CURRENT	A	5.58	9.00
	LOCKED ROTOR AMP.	A	25	56

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## Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MMSD2020A
	OUTDOOR UNIT		MCK020C
INDOOR MOTOR	INSULATION GRADE		CLASS E
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50
	RATED INPUT POWER	W	72
	RATED RUNNING CURRENT	A	0.32
	MOTOR OUTPUT	W	22
	POLES		6
OUTDOOR MOTOR	INSULATION GRADE		CLASS E
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50
	RATED INPUT POWER	W	222
	RATED RUNNING CURRENT	A	0.98
	MOTOR OUTPUT	W	50
COMPRESSOR	INSULATION GRADE		N/A
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50
	CAPACITOR	mF	45
	RATED INPUT POWER	W	1804
	RATED RUNNING CURRENT	A	9.00
	LOCKED ROTOR AMP.	A	56

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## Electrical Data - Heatpump (R22)

MODEL	OUTDOOR UNIT		MMSD1010AR	MMSD1515AR
	INDOOR UNIT		2 x MWM010GR	2 x MWM015GR
INDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	27	30
	RATED RUNNING CURRENT	A	0.11	0.13
	MOTOR OUTPUT	W	9	13
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		B	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	170	
	RATED RUNNING CURRENT	A	0.72	
	MOTOR OUTPUT	W	70	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	30	
	RATED INPUT POWER (COOLING)	W	820	1125
	RATED INPUT POWER (HEATING)	W	925	1114
	RATED RUNNING CURRENT (COOLING)	A	3.69	5.12
	RATED RUNNING CURRENT (HEATING)	A	4.1	5.05
	LOCKED ROTOR AMP.	A	20	25

MODEL	OUTDOOR UNIT		MMSD1015AR	
	INDOOR UNIT		MWM010GR	MWM015GR
INDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	27	30
	RATED RUNNING CURRENT	A	0.11	0.13
	MOTOR OUTPUT	W	9	13
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		B	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	170	
	RATED RUNNING CURRENT	A	0.72	
	MOTOR OUTPUT	W	70	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	30	
	RATED INPUT POWER (COOLING)	W	820	1125
	RATED INPUT POWER (HEATING)	W	925	1114
	RATED RUNNING CURRENT (COOLING)	A	3.69	5.12
	RATED RUNNING CURRENT (HEATING)	A	4.1	5.05
	LOCKED ROTOR AMP.	A	20	25

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## Electrical Data - Heatpump (R22)

MODEL	OUTDOOR UNIT		MMSD1520AR	
	INDOOR UNIT		MWM015GR	MWM020GR
INDOOR MOTOR	INSULATION GRADE		E	B
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	30	50
	RATED RUNNING CURRENT	A	0.13	0.22
	MOTOR OUTPUT	W	13	20
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	222	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	150	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	30	45
	RATED INPUT POWER (COOLING)	W	1171	1987
	RATED INPUT POWER (HEATING)	W	1086	2087
	RATED RUNNING CURRENT (COOLING)	A	5.2	10.8
	RATED RUNNING CURRENT (HEATING)	A	4.9	11.3
	LOCKED ROTOR AMP.	A	25	56

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## Electrical Data - Cooling Only (R407C)

MODEL	OUTDOOR UNIT		M4MSD1010A	
	INDOOR UNIT		2 x MWM010G	
INDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	27	30
	RATED RUNNING CURRENT	A	0.11	0.13
	MOTOR OUTPUT	W	9	13
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		B	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	170	
	RATED RUNNING CURRENT	A	0.72	
	MOTOR OUTPUT	W	70	
COMPRESSOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	30	
	RATED INPUT POWER	W	840	1370
	RATED RUNNING CURRENT	A	3.6	6.2
	LOCKED ROTOR AMP.	A	20	25

MODEL	OUTDOOR UNIT		M4MSD1015A	
	INDOOR UNIT		MWM010G	MWM015G
INDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	27	30
	RATED RUNNING CURRENT	A	0.11	0.13
	MOTOR OUTPUT	W	9	13
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		B	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	170	
	RATED RUNNING CURRENT	A	0.72	
	MOTOR OUTPUT	W	70	
COMPRESSOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	30	
	RATED INPUT POWER	W	840	1370
	RATED RUNNING CURRENT	A	3.6	6.2
	LOCKED ROTOR AMP.	A	20	25

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## Electrical Data - Heatpump (R407C)

MODEL	OUTDOOR UNIT		M4MSD1010AR	M4MSD1515AR
	INDOOR UNIT		2 x MWM010GR	2 x MWM015GR
INDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	27	30
	RATED RUNNING CURRENT	A	0.11	0.13
	MOTOR OUTPUT	W	9	13
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		B	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	170	
	RATED RUNNING CURRENT	A	0.72	
	MOTOR OUTPUT	W	70	
COMPRESSOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	30	
	RATED INPUT POWER (COOLING)	W	846	1299
	RATED INPUT POWER (HEATING)	W	781	1244
	RATED RUNNING CURRENT (COOLING)	A	3.60	5.94
	RATED RUNNING CURRENT (HEATING)	A	3.34	5.74
	LOCKED ROTOR AMP.	A	20	25

MODEL	OUTDOOR UNIT		M4MSD1015AR	
	INDOOR UNIT		MWM010GR	MWM015GR
INDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	27	30
	RATED RUNNING CURRENT	A	0.11	0.13
	MOTOR OUTPUT	W	9	13
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		B	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	170	
	RATED RUNNING CURRENT	A	0.72	
	MOTOR OUTPUT	W	70	
COMPRESSOR	INSULATION GRADE		E	E
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	30	
	RATED INPUT POWER (COOLING)	W	846	1298
	RATED INPUT POWER (HEATING)	W	799	1225
	RATED RUNNING CURRENT (COOLING)	A	3.60	5.98
	RATED RUNNING CURRENT (HEATING)	A	3.40	5.68
	LOCKED ROTOR AMP.	A	20	25

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**MMST**  
**Electrical Data - Cooling Only (R22)**

MODEL	INDOOR UNIT		MMST101010A	MMST151515A
	OUTDOOR UNIT		3 x MWM010G	3 x MWM015G
INDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	27	30
	RATED RUNNING CURRENT	A	0.11	0.13
	MOTOR OUTPUT	W	9	13
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	228	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	150	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	30	
	RATED INPUT POWER	W	862	1290
	RATED RUNNING CURRENT	A	3.84	5.70
	LOCKED ROTOR AMP.	A	20	25

MODEL	INDOOR UNIT		MMST101015A	
	OUTDOOR UNIT		2 x MWM010G	MWM015G
INDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	27	30
	RATED RUNNING CURRENT	A	0.11	0.13
	MOTOR OUTPUT	W	9	13
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	228	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	150	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	30	
	RATED INPUT POWER	W	862	1290
	RATED RUNNING CURRENT	A	3.84	5.70
	LOCKED ROTOR AMP.	A	20	25

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## Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MMST101515A	
	OUTDOOR UNIT		MWM010G	2 x MWM015G
INDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	27	30
	RATED RUNNING CURRENT	A	0.11	0.13
	MOTOR OUTPUT	W	9	13
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	228	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	150	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	30	
	RATED INPUT POWER	W	771	1290
	RATED RUNNING CURRENT	A	3.28	5.70
	LOCKED ROTOR AMP.	A	20	25

MODEL	INDOOR UNIT		MMST101020A	
	OUTDOOR UNIT		2 x MWM010G	MWM020G
INDOOR MOTOR	INSULATION GRADE		E	B
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	27	50
	RATED RUNNING CURRENT	A	0.11	0.22
	MOTOR OUTPUT	W	9	20
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	228	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	150	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	30	45
	RATED INPUT POWER	W	862	1971
	RATED RUNNING CURRENT	A	3.84	9.02
	LOCKED ROTOR AMP.	A	20	56

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## Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MMST101025A	
	OUTDOOR UNIT		2 x MWM010G	MWM025G
INDOOR MOTOR	INSULATION GRADE		E	B
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	27	66
	RATED RUNNING CURRENT	A	0.11	0.29
	MOTOR OUTPUT	W	9	25
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		B	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	228	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	145	
COMPRESSOR	INSULATION GRADE		N/A	E
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	30	45
	RATED INPUT POWER	W	862	2430
	RATED RUNNING CURRENT	A	3.84	12.00
	LOCKED ROTOR AMP.	A	20	57

MODEL	INDOOR UNIT		MMST151525A	
	OUTDOOR UNIT		2 x MWM015G	MWM025G
INDOOR MOTOR	INSULATION GRADE		E	B
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	30	66
	RATED RUNNING CURRENT	A	0.13	0.29
	MOTOR OUTPUT	W	13	25
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		B	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	228	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	145	
COMPRESSOR	INSULATION GRADE		N/A	E
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	30	45
	RATED INPUT POWER	W	1290	2430
	RATED RUNNING CURRENT	A	5.7	12.0
	LOCKED ROTOR AMP.	A	25	57

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## Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MMST101520A		
	OUTDOOR UNIT		MWM010G	MWM015G	MWM020G
INDOOR MOTOR	INSULATION GRADE		E		B
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz		
	RATED INPUT POWER	W	27	30	50
	RATED RUNNING CURRENT	A	0.11	0.13	0.22
	MOTOR OUTPUT	W	9	13	20
	POLES		4		
OUTDOOR MOTOR	INSULATION GRADE		E		
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz		
	RATED INPUT POWER	W	222		
	RATED RUNNING CURRENT	A	0.98		
	MOTOR OUTPUT	W	145		
COMPRESSOR	INSULATION GRADE		N/A		
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz		
	CAPACITOR	μF	30		45
	RATED INPUT POWER	W	745	1250	1971
	RATED RUNNING CURRENT	A	3.3	5.7	9.0
	LOCKED ROTOR AMP.	A	20	25	56

MODEL	INDOOR UNIT		MMST101525A		
	OUTDOOR UNIT		MWM010G	MWM015G	MWM025G
INDOOR MOTOR	INSULATION GRADE		E		B
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz		
	RATED INPUT POWER	W	27	30	66
	RATED RUNNING CURRENT	A	0.11	0.13	0.29
	MOTOR OUTPUT	W	9	13	25
	POLES		4		
OUTDOOR MOTOR	INSULATION GRADE		N/A		
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz		
	RATED INPUT POWER	W	220		
	RATED RUNNING CURRENT	A	1.02		
	MOTOR OUTPUT	W	145		
COMPRESSOR	INSULATION GRADE		N/A		E
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz		
	CAPACITOR	μF	30		45
	RATED INPUT POWER	W	745	1250	2430
	RATED RUNNING CURRENT	A	3.3	5.7	12.0
	LOCKED ROTOR AMP.	A	20	25	57

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## Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MMST151520A	
	OUTDOOR UNIT		2 x MWM015G	MWM020G
INDOOR MOTOR	INSULATION GRADE		E	B
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	30	66
	RATED RUNNING CURRENT	A	0.13	0.29
	MOTOR OUTPUT	W	13	25
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		B	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	228	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	145	
COMPRESSOR	INSULATION GRADE		N/A	E
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	30	45
	RATED INPUT POWER	W	1259	1889
	RATED RUNNING CURRENT	A	5.8	9.5
	LOCKED ROTOR AMP.	A	23/25	50/55

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## Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MMST101010A	MMST151515A
	OUTDOOR UNIT		3 x MCC010C	3 x MCC015C
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	65	96
	RATED RUNNING CURRENT	A	0.29	0.42
	MOTOR OUTPUT	W	30	50
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	228	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	150	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	CAPACITOR	mF	30	
	RATED INPUT POWER	W	862	1290
	RATED RUNNING CURRENT	A	3.84	5.7
	LOCKED ROTOR AMP.	A	20	25

MODEL	INDOOR UNIT		MMST101015A	
	OUTDOOR UNIT		2 x MCC010C	MCC015C
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	65	96
	RATED RUNNING CURRENT	A	0.29	0.42
	MOTOR OUTPUT	W	30	50
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	228	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	150	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	CAPACITOR	mF	30	
	RATED INPUT POWER	W	862	1290
	RATED RUNNING CURRENT	A	3.84	5.7
	LOCKED ROTOR AMP.	A	20	25

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## Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MMST101515A	
	OUTDOOR UNIT		MCC010C	2 x MCC015C
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	65	96
	RATED RUNNING CURRENT	A	0.29	0.42
	MOTOR OUTPUT	W	30	50
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	228	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	150	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	CAPACITOR	mF	30	
	RATED INPUT POWER	W	862	1290
	RATED RUNNING CURRENT	A	3.84	5.7
	LOCKED ROTOR AMP.	A	20	25

MODEL	INDOOR UNIT		MMST101020A	
	OUTDOOR UNIT		2 x MCC010C	MCC020C
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	65	135
	RATED RUNNING CURRENT	A	0.29	0.6
	MOTOR OUTPUT	W	30	80
	POLES		4	6
OUTDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	228	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	150	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	CAPACITOR	mF	30	45
	RATED INPUT POWER	W	862	1971
	RATED RUNNING CURRENT	A	3.84	9.02
	LOCKED ROTOR AMP.	A	20	56

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## Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MMST101025A	
	OUTDOOR UNIT		2 x MCC010C	MCC025C
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	65	152
	RATED RUNNING CURRENT	A	0.29	0.67
	MOTOR OUTPUT	W	30	100
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	228	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	150	
COMPRESSOR	INSULATION GRADE		N/A	E
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	CAPACITOR	mF	30	45
	RATED INPUT POWER	W	862	2430
	RATED RUNNING CURRENT	A	3.84	12.00
	LOCKED ROTOR AMP.	A	20	57

MODEL	INDOOR UNIT		MMST151525A	
	OUTDOOR UNIT		2 x MCC015C	MCC025C
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	96	152
	RATED RUNNING CURRENT	A	0.42	0.67
	MOTOR OUTPUT	W	50	100
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	228	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	150	
COMPRESSOR	INSULATION GRADE		N/A	E
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	CAPACITOR	mF	30	45
	RATED INPUT POWER	W	1290	2430
	RATED RUNNING CURRENT	A	5.70	12.00
	LOCKED ROTOR AMP.	A	25	57

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## Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MMST101525A		
	OUTDOOR UNIT		MCC010C	MCC015C	MCC025C
INDOOR MOTOR	INSULATION GRADE		CLASS E		
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50		
	RATED INPUT POWER	W	65	96	152
	RATED RUNNING CURRENT	A	0.29	0.40	0.67
	MOTOR OUTPUT	W	30	50	100
	POLES		4		
OUTDOOR MOTOR	INSULATION GRADE		CLASS B		
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50		
	RATED INPUT POWER	W	220		
	RATED RUNNING CURRENT	A	1.02		
	MOTOR OUTPUT	W	145		
COMPRESSOR	INSULATION GRADE		N/A		E
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50		
	CAPACITOR	mF	30		45
	RATED INPUT POWER	W	862	1250	2430
	RATED RUNNING CURRENT	A	3.84	5.70	12.00
	LOCKED ROTOR AMP.	A	20	25	57

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## Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MMST101010A	MMST151515A
	OUTDOOR UNIT		3 x MCK010C	3 x MCK015C
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	54	60
	RATED RUNNING CURRENT	A	0.23	0.27
	MOTOR OUTPUT	W	16	18
	POLES		6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	228	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	150	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	CAPACITOR	mF	30	
	RATED INPUT POWER	W	862	1290
	RATED RUNNING CURRENT	A	3.84	5.7
	LOCKED ROTOR AMP.	A	20	25

MODEL	INDOOR UNIT		MMST101015A	
	OUTDOOR UNIT		2 x MCK010C	MCK015C
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	54	60
	RATED RUNNING CURRENT	A	0.23	0.27
	MOTOR OUTPUT	W	16	18
	POLES		6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	228	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	150	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	CAPACITOR	mF	30	
	RATED INPUT POWER	W	862	1290
	RATED RUNNING CURRENT	A	3.84	5.7
	LOCKED ROTOR AMP.	A	20	25

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## Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MMST101515A	
	OUTDOOR UNIT		MCK010C	2 x MCK015C
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	54	60
	RATED RUNNING CURRENT	A	0.23	0.27
	MOTOR OUTPUT	W	16	18
	POLES		6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	228	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	150	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	CAPACITOR	mF	30	
	RATED INPUT POWER	W	862	1290
	RATED RUNNING CURRENT	A	3.84	5.7
	LOCKED ROTOR AMP.	A	20	25

MODEL	INDOOR UNIT		MMST101020A	
	OUTDOOR UNIT		2 x MCK010C	MCK020C
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	54	72
	RATED RUNNING CURRENT	A	0.23	0.32
	MOTOR OUTPUT	W	16	22
	POLES		6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	228	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	150	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	CAPACITOR	mF	30	45
	RATED INPUT POWER	W	862	1971
	RATED RUNNING CURRENT	A	3.84	9.02
	LOCKED ROTOR AMP.	A	20	56

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## Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MMST101025A	
	OUTDOOR UNIT		2 x MCK010C	MCK025A
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	54	138
	RATED RUNNING CURRENT	A	0.23	0.61
	MOTOR OUTPUT	W	16	50
	POLES		6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	228	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	150	
COMPRESSOR	INSULATION GRADE		N/A	E
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	CAPACITOR	mF	30	45
	RATED INPUT POWER	W	862	2430
	RATED RUNNING CURRENT	A	3.84	12.00
	LOCKED ROTOR AMP.	A	20	57

MODEL	INDOOR UNIT		MMST151525A	
	OUTDOOR UNIT		2 x MCK015C	MCK025A
INDOOR MOTOR	INSULATION GRADE		CLASS E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	60	138
	RATED RUNNING CURRENT	A	0.27	0.61
	MOTOR OUTPUT	W	18	50
	POLES		6	
OUTDOOR MOTOR	INSULATION GRADE		CLASS B	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	RATED INPUT POWER	W	228	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	150	
COMPRESSOR	INSULATION GRADE		N/A	E
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50	
	CAPACITOR	mF	30	45
	RATED INPUT POWER	W	1290	2430
	RATED RUNNING CURRENT	A	5.70	12.00
	LOCKED ROTOR AMP.	A	25	57

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## Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MMST101525A		
	OUTDOOR UNIT		MCK010C	MCK015C	MCK025A
INDOOR MOTOR	INSULATION GRADE		CLASS E		
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50		
	RATED INPUT POWER	W	54	60	138
	RATED RUNNING CURRENT	A	0.23	0.27	0.61
	MOTOR OUTPUT	W	16	18	50
	POLES		6		
OUTDOOR MOTOR	INSULATION GRADE		CLASS B		
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50		
	RATED INPUT POWER	W	220		
	RATED RUNNING CURRENT	A	1.02		
	MOTOR OUTPUT	W	145		
COMPRESSOR	INSULATION GRADE		N/A		E
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50		
	CAPACITOR	mF	30		45
	RATED INPUT POWER	W	862	1250	2430
	RATED RUNNING CURRENT	A	3.84	5.70	12.00
	LOCKED ROTOR AMP.	A	20	25	57

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## Electrical Data - Heatpump (R22)

MODEL	INDOOR UNIT		MMST101010AR	MMST151515AR
	OUTDOOR UNIT		3 x MWM010GR	3 x MWM015GR
INDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	27	30
	RATED RUNNING CURRENT	A	0.11	0.13
	MOTOR OUTPUT	W	9	13
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	228	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	150	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	30	
	RATED INPUT POWER (COOLING)	W	745	1213
	RATED INPUT POWER (HEATING)	W	676	1034
	RATED RUNNING CURRENT (COOLING)	A	3.37	5.52
	RATED RUNNING CURRENT (HEATING)	A	3.10	4.78
	LOCKED ROTOR AMP.	A	20	25

MODEL	INDOOR UNIT		MMST101015AR	
	OUTDOOR UNIT		2 x MWM010GR	MWM015GR
INDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	27	30
	RATED RUNNING CURRENT	A	0.11	0.13
	MOTOR OUTPUT	W	9	13
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	228	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	150	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	30	
	RATED INPUT POWER (COOLING)	W	745	1213
	RATED INPUT POWER (HEATING)	W	676	1034
	RATED RUNNING CURRENT (COOLING)	A	3.37	5.52
	RATED RUNNING CURRENT (HEATING)	A	3.10	4.78
	LOCKED ROTOR AMP.	A	20	25

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## Electrical Data - Heatpump (R22)

MODEL	OUTDOOR UNIT		MMST101515AR	
	INDOOR UNIT		MWM010GR	2 x MWM015GR
INDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	27	30
	RATED RUNNING CURRENT	A	0.11	0.13
	MOTOR OUTPUT	W	9	13
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	228	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	150	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	30	
	RATED INPUT POWER (COOLING)	W	745	1213
	RATED INPUT POWER (HEATING)	W	676	1034
	RATED RUNNING CURRENT (COOLING)	A	3.37	5.52
	RATED RUNNING CURRENT (HEATING)	A	3.10	4.78
	LOCKED ROTOR AMP.	A	20	25

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## Electrical Data - Cooling Only (R407C)

MODEL	INDOOR UNIT		M4MST101010A	M4MST151515A
	OUTDOOR UNIT		3 x MWM010G	3 x MWM015G
INDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	27	30
	RATED RUNNING CURRENT	A	0.11	0.13
	MOTOR OUTPUT	W	9	13
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	228	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	150	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	30	
	RATED INPUT POWER	W	878	1288
	RATED RUNNING CURRENT	A	3.87	5.77
	LOCKED ROTOR AMP.	A	20	25

MODEL	INDOOR UNIT		M4MST101015A	
	OUTDOOR UNIT		2 x MWM010G	MWM015G
INDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	27	30
	RATED RUNNING CURRENT	A	0.11	0.13
	MOTOR OUTPUT	W	9	13
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	228	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	150	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	30	
	RATED INPUT POWER	W	878	1288
	RATED RUNNING CURRENT	A	3.87	5.77
	LOCKED ROTOR AMP.	A	20	25

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## Electrical Data - Cooling Only (R407C)

MODEL	INDOOR UNIT		M4MST101515A	
	OUTDOOR UNIT		MWM010G	2 x MWM015G
INDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	27	30
	RATED RUNNING CURRENT	A	0.11	0.13
	MOTOR OUTPUT	W	9	13
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	228	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	150	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	30	
	RATED INPUT POWER	W	878	1288
	RATED RUNNING CURRENT	A	3.87	5.77
	LOCKED ROTOR AMP.	A	20	25

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## Electrical Data - Heatpump (R407C)

MODEL	INDOOR UNIT		M4MST101010AR	M4MST151515AR
	OUTDOOR UNIT		3 x MWM010GR	3 x MWM015GR
INDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	27	30
	RATED RUNNING CURRENT	A	0.11	0.13
	MOTOR OUTPUT	W	9	13
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	228	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	150	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	30	
	RATED INPUT POWER (COOLING)	W	878	1288
	RATED INPUT POWER (HEATING)	W	771	1119
	RATED RUNNING CURRENT (COOLING)	A	3.87	5.77
	RATED RUNNING CURRENT (HEATING)	A	3.47	5.47
	LOCKED ROTOR AMP.	A	20	25

MODEL	INDOOR UNIT		M4MST101015AR	
	OUTDOOR UNIT		2 x MWM010GR	MWM015GR
INDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	27	30
	RATED RUNNING CURRENT	A	0.11	0.13
	MOTOR OUTPUT	W	9	13
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	228	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	150	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	30	
	RATED INPUT POWER (COOLING)	W	878	1288
	RATED INPUT POWER (HEATING)	W	771	1119
	RATED RUNNING CURRENT (COOLING)	A	3.87	5.77
	RATED RUNNING CURRENT (HEATING)	A	3.47	5.47
	LOCKED ROTOR AMP.	A	20	25

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## Electrical Data - Heatpump (R407C)

MODEL	INDOOR UNIT		M4MST101515AR	
	OUTDOOR UNIT		MWM010GR	2 x MWM015GR
INDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	27	30
	RATED RUNNING CURRENT	A	0.11	0.13
	MOTOR OUTPUT	W	9	13
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	228	
	RATED RUNNING CURRENT	A	0.98	
	MOTOR OUTPUT	W	150	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	30	
	RATED INPUT POWER (COOLING)	W	878	1288
	RATED INPUT POWER (HEATING)	W	771	1119
	RATED RUNNING CURRENT (COOLING)	A	3.87	5.77
	RATED RUNNING CURRENT (HEATING)	A	3.47	5.47
	LOCKED ROTOR AMP.	A	20	25

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**MMSH**  
**Electrical Data - Cooling Only (R22)**

MODEL	INDOOR UNIT		MMSH8K8A	MMSHK77A
	OUTDOOR UNIT		2 x MWM010G	2 x MWM015G
INDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	27	30
	RATED RUNNING CURRENT	A	0.11	0.13
	MOTOR OUTPUT	W	9	13
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	170	62
	RATED RUNNING CURRENT	A	0.72	0.28
	MOTOR OUTPUT	W	80	25
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	25	30
	RATED INPUT POWER	W	638	1259
	RATED RUNNING CURRENT	A	2.72	5.58
	LOCKED ROTOR AMP.	A	15	25

MODEL	INDOOR UNIT		MMSH8K66A	MMSH66K66A
	OUTDOOR UNIT		3 x MWM010G	4 x MWM010G
INDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	27	30
	RATED RUNNING CURRENT	A	0.11	0.13
	MOTOR OUTPUT	W	9	13
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	170	
	RATED RUNNING CURRENT	A	0.72	
	MOTOR OUTPUT	W	80	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	25 & 25	25
	RATED INPUT POWER	W	1042 & 650	1046
	RATED RUNNING CURRENT	A	4.50 & 2.80	4.52
	LOCKED ROTOR AMP.	A	21 & 15	21

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.  
2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

## Electrical Data - Cooling Only (R22)

MODEL	INDOOR UNIT		MMSH66K555A	
	OUTDOOR UNIT		4 x MWM010G	MWM015G
INDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	27	30
	RATED RUNNING CURRENT	A	0.11	0.13
	MOTOR OUTPUT	W	9	13
	POLES		4	
OUTDOOR MOTOR	INSULATION GRADE		E	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	RATED INPUT POWER	W	170	
	RATED RUNNING CURRENT	A	0.72	
	MOTOR OUTPUT	W	80	
COMPRESSOR	INSULATION GRADE		N/A	
	POWER SOURCE	V/Ph/Hz	220 ~ 240 / 1 / 50Hz	
	CAPACITOR	μF	25	
	RATED INPUT POWER	W	1074	1039
	RATED RUNNING CURRENT	A	4.69	4.56
	LOCKED ROTOR AMP.	A	21	

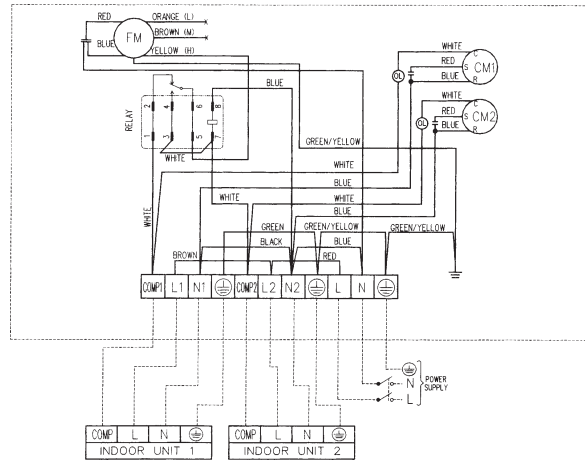
1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

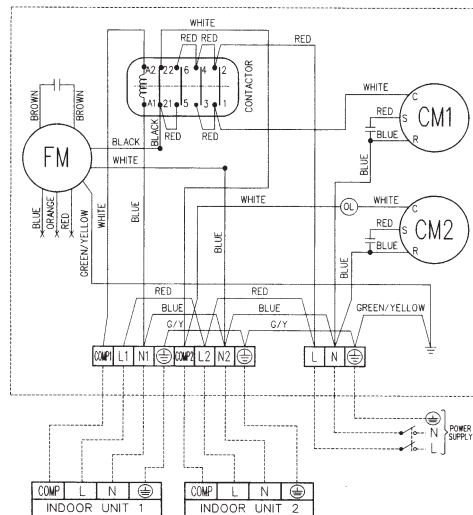
# Wiring Diagrams

## OUTDOOR UNIT - COOLING ONLY

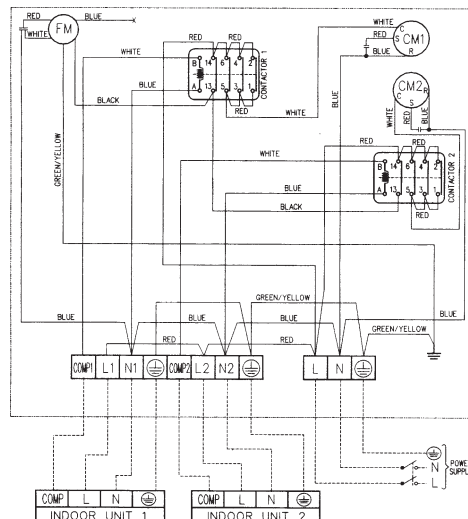
**MODEL : MMSD/M4MSD 1010A/ 1015A/ 1515A**



**MODEL : MMSD 1020A/ 1520A**

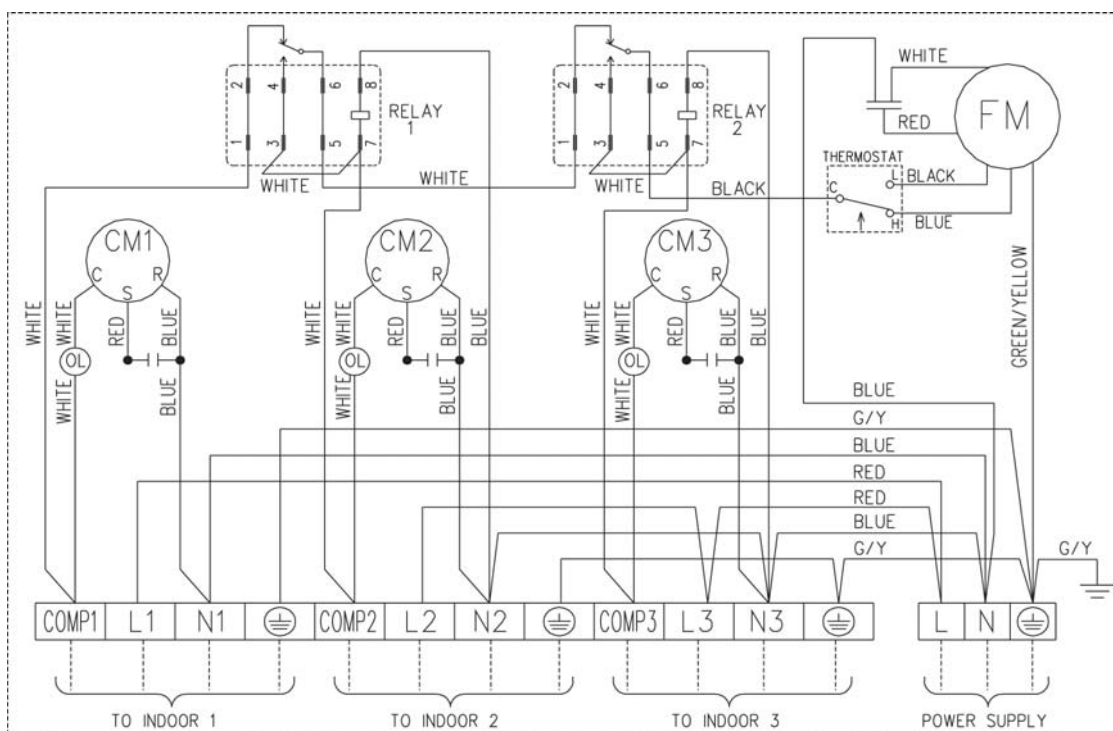


**MODEL : MMSD 2020A**



## OUTDOOR UNIT - COOLING ONLY

MODEL : MMST/M4MST 101010A/ 101015A/ 101515A/ 151515A



KEY:

FM - FAN MOTOR

CM1 - COMPRESSOR MOTOR 1

CM2 - COMPRESSOR MOTOR 2

CM3 - COMPRESSOR MOTOR 3

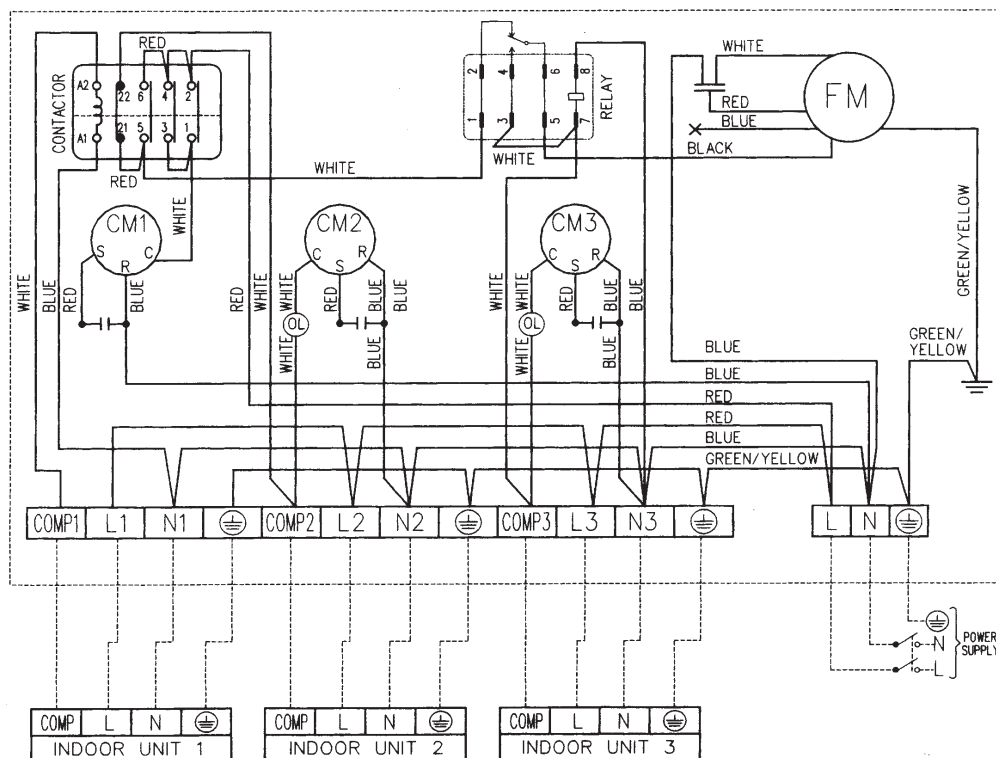
CAUTION:

ALL POWER SOURCE MUST BE FROM THE SAME PHASE

NOTE:

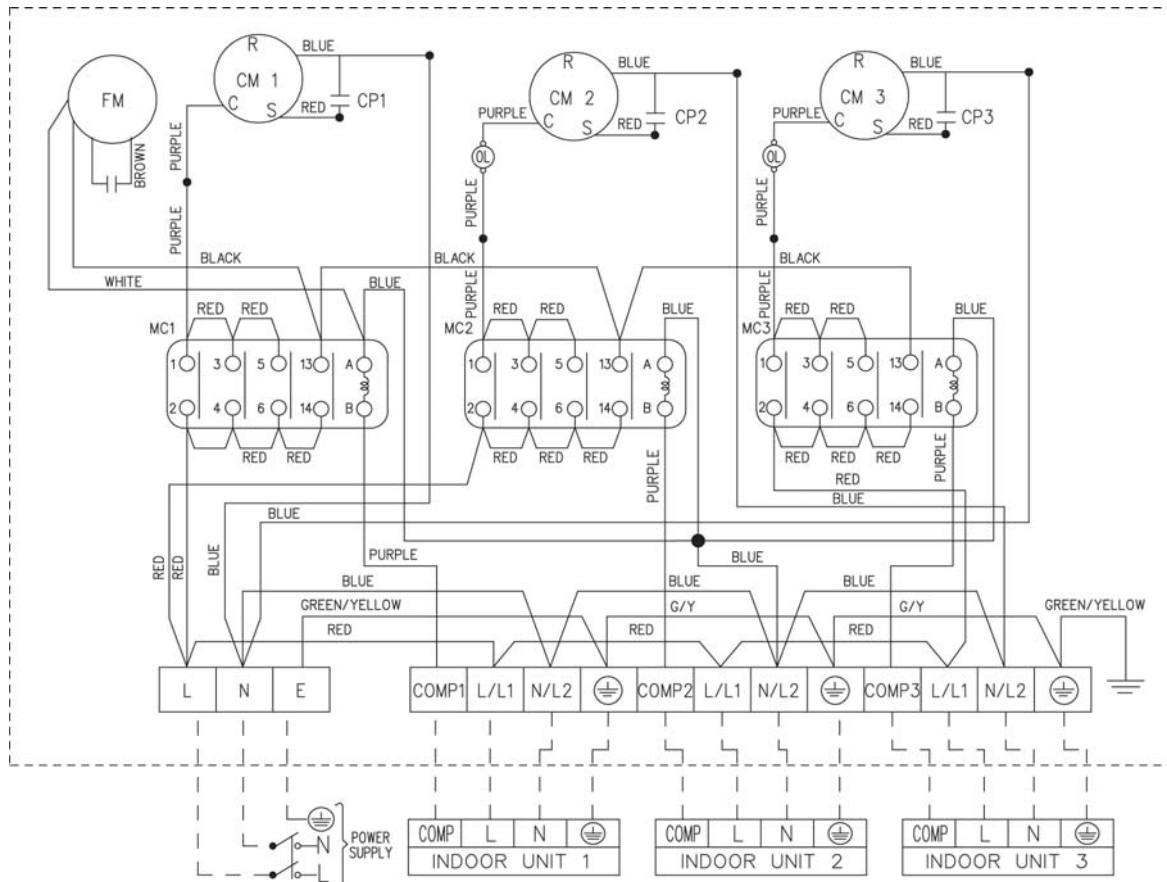
FOR FAN SPEED CONTROL APPLICATION

## MODEL : MMST 101020A

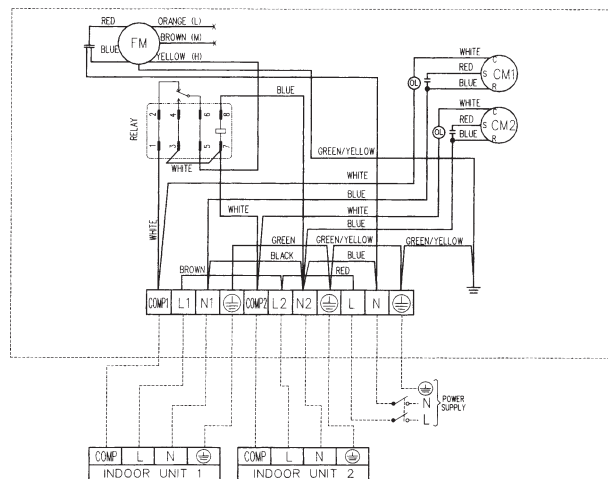




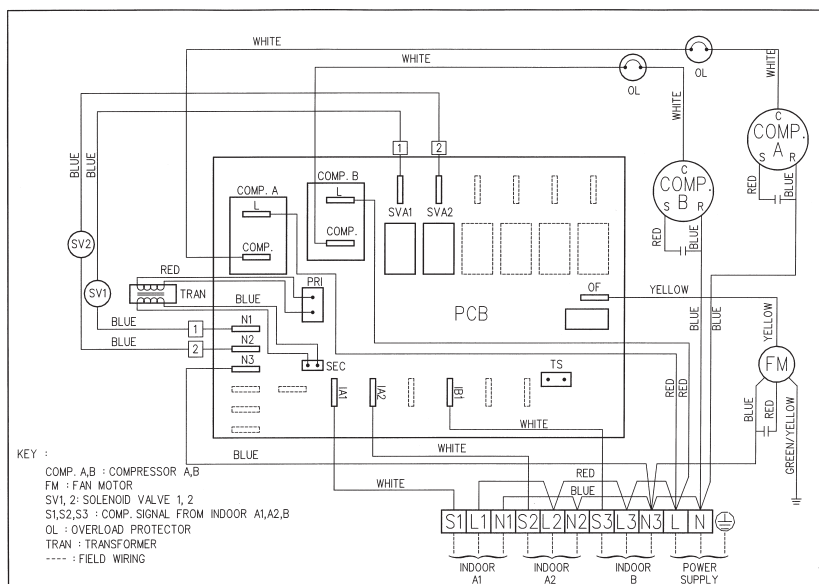
**OUTDOOR UNIT - COOLING ONLY**  
**MODEL : MMST 101025A/ 101525A/ 151525A**



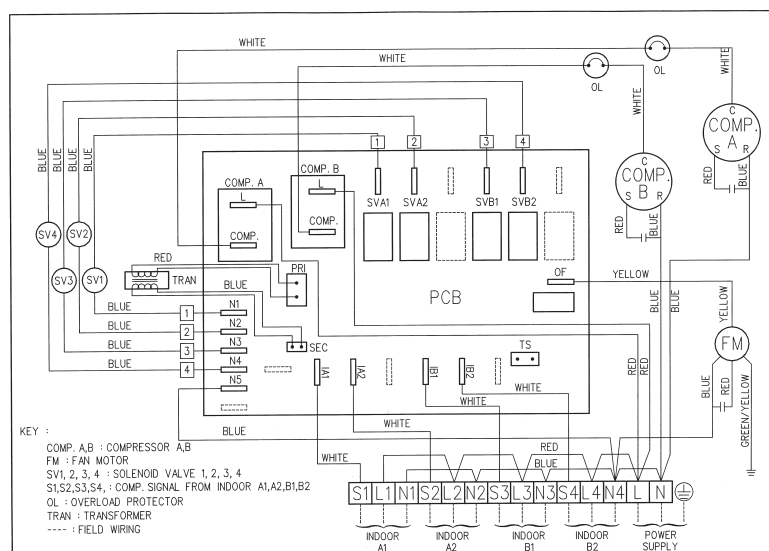
## OUTDOOR UNIT - COOLING ONLY MODEL : MMSH8K8A



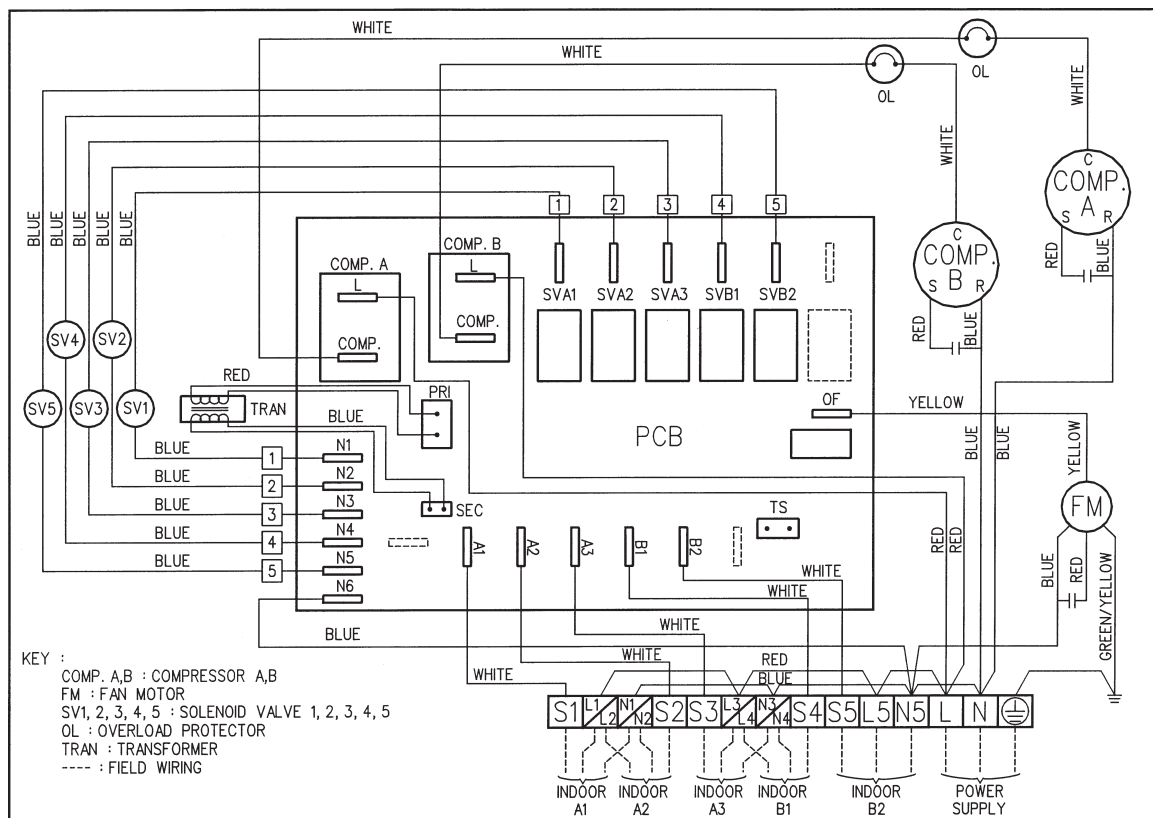
## MODEL : MMSH8K66A



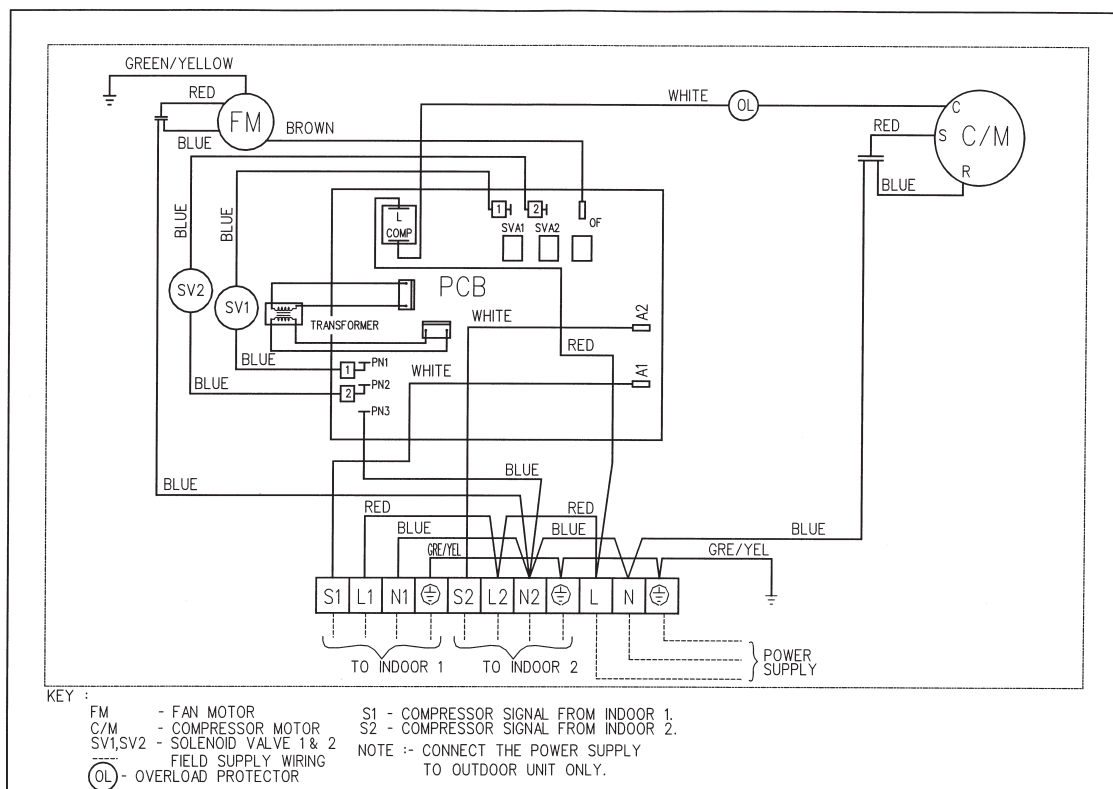
## MODEL : MMSH66K66A



## OUTDOOR UNIT - COOLING ONLY MODEL : MMSH66K555A

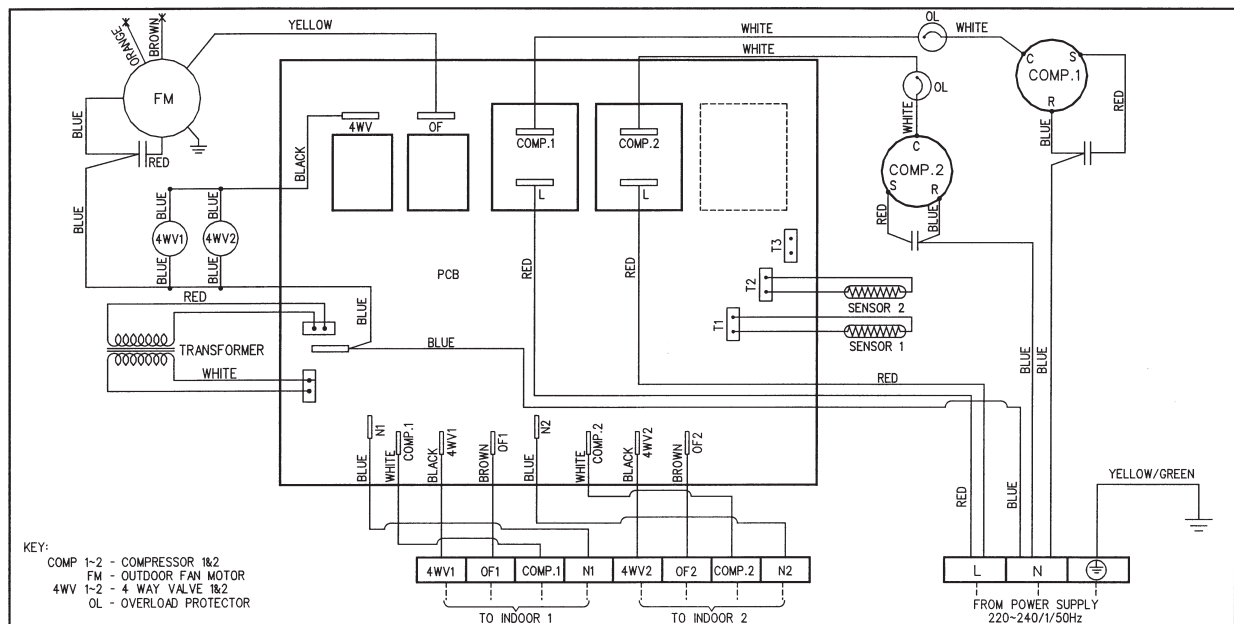


## MODEL : MMSHK77A

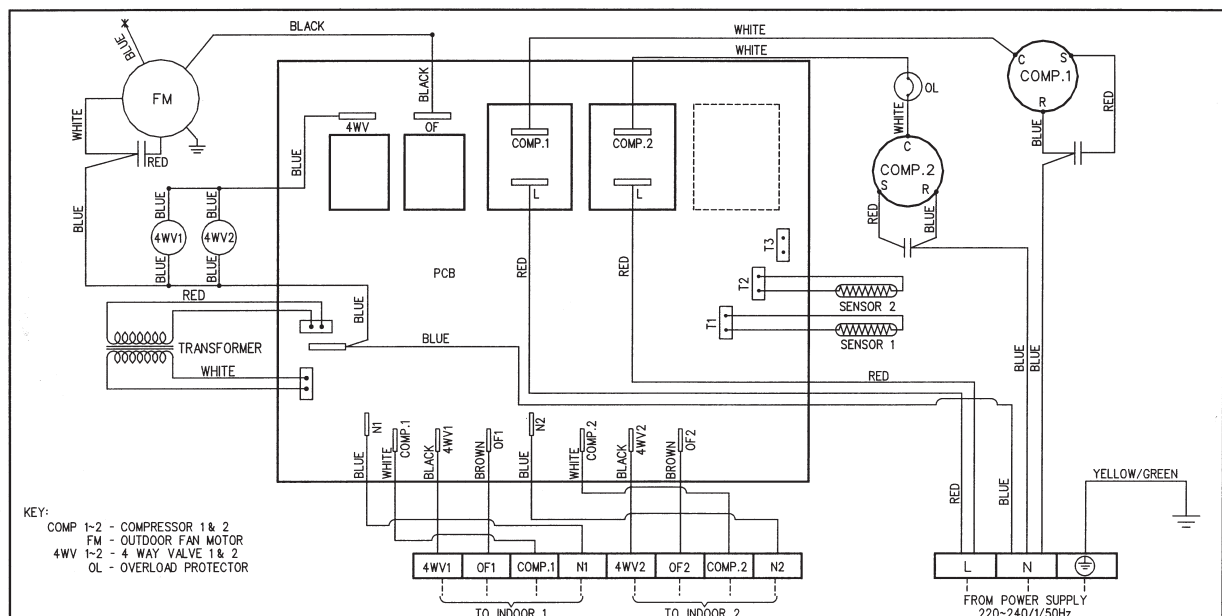


## OUTDOOR UNIT - HEATPUMP

MODEL : MMSD/M4MSD 1010AR / 1015AR / 1515AR

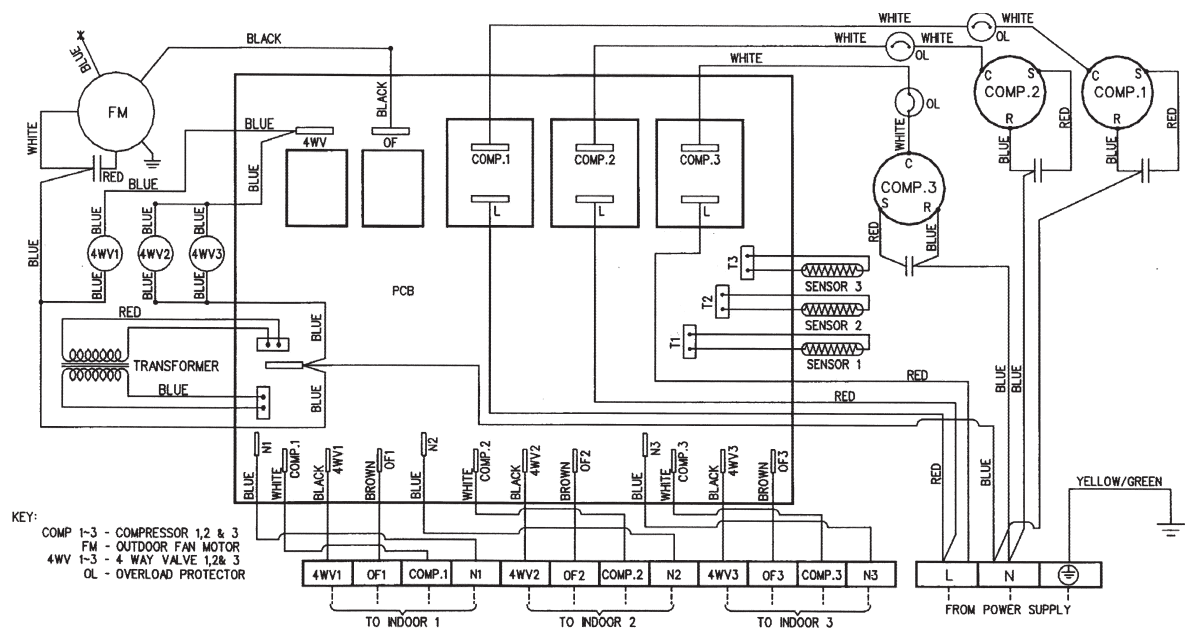


MODEL : MMSD 1520AR

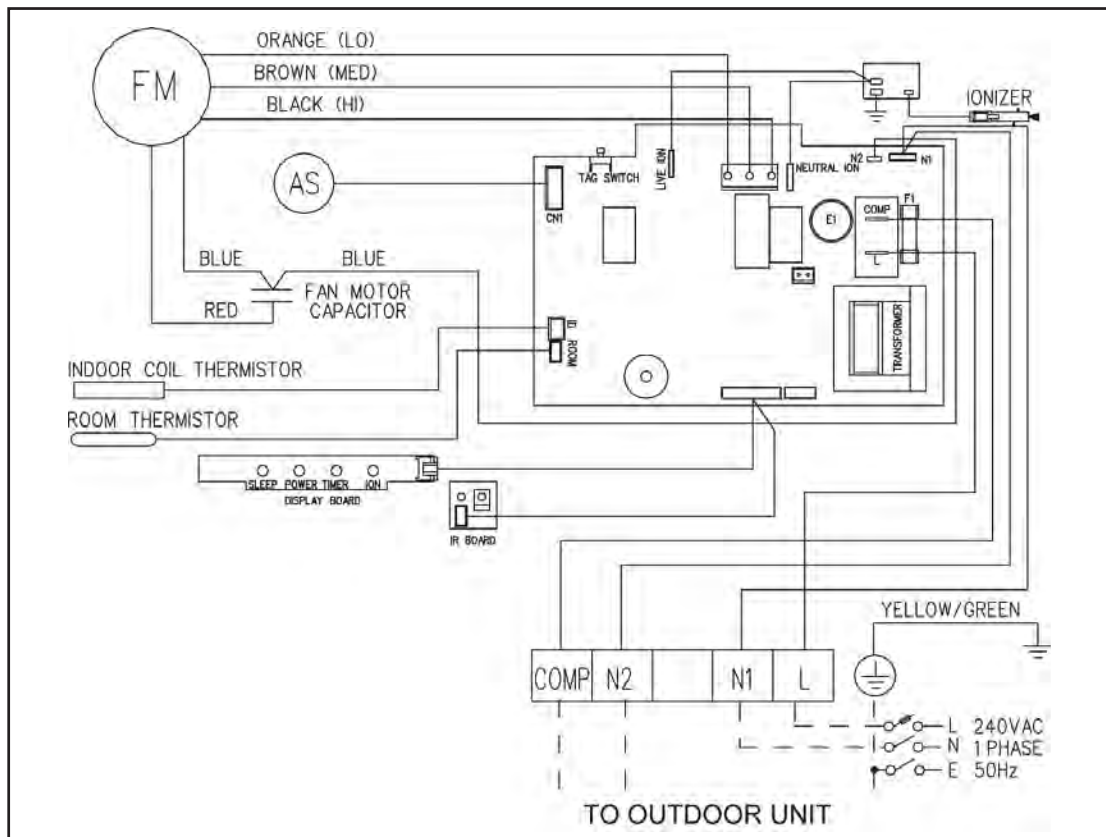


# OUTDOOR UNIT - HEATPUMP

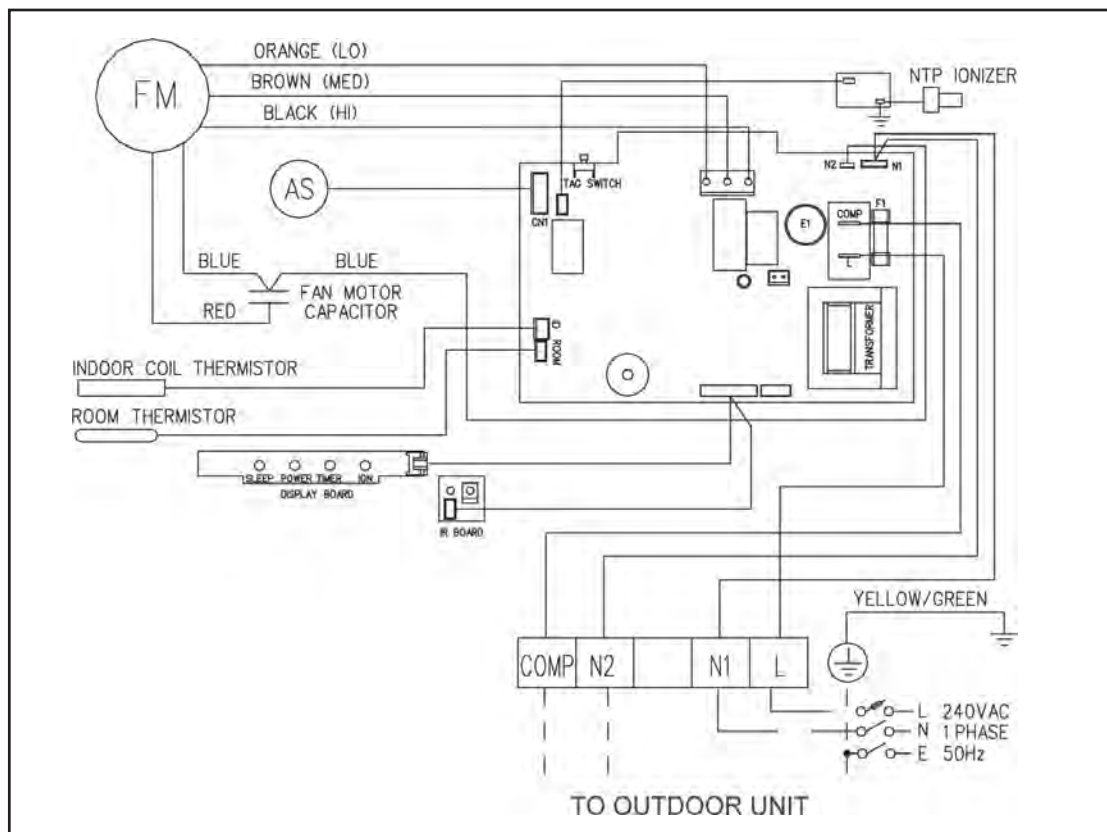
MODEL : MMST / M4MST 101010AR / 101015AR / 101515AR / 151515AR



**INDOOR UNIT - COOLING ONLY**  
**MODEL : MWM 010/015G (IONIZER)**

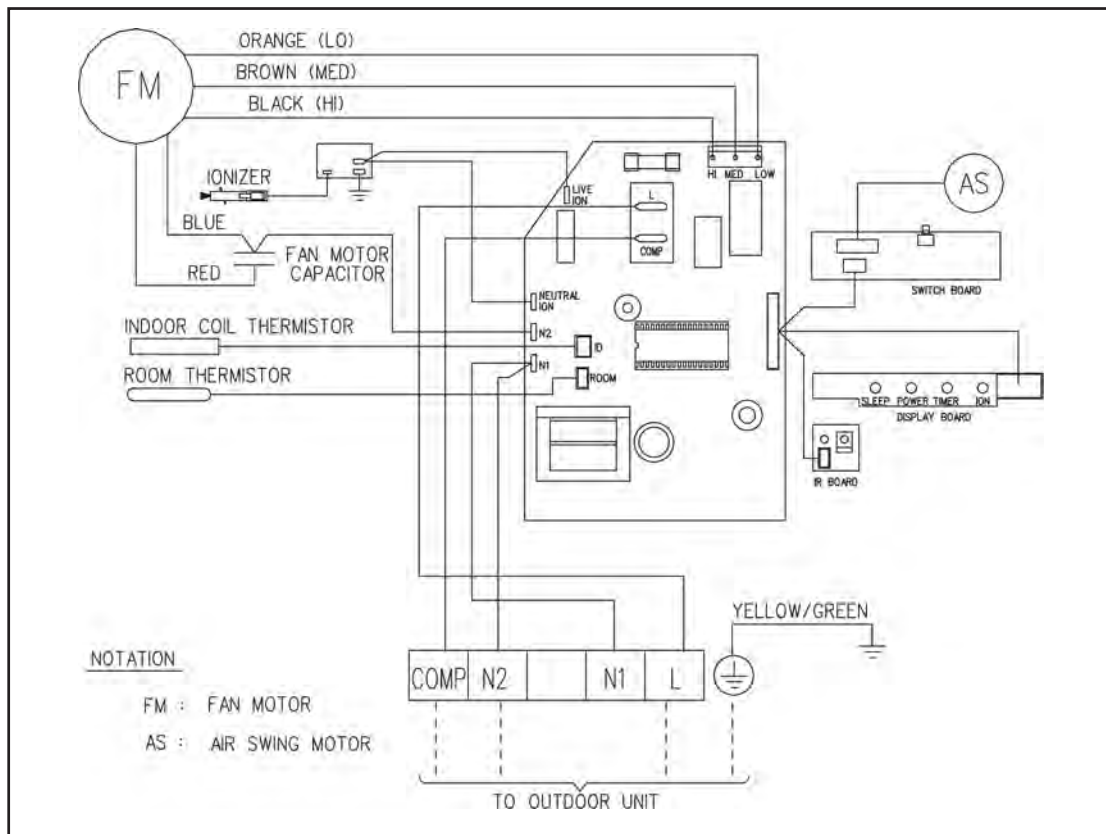


**MODEL : MWM 010/015G (NTP)**

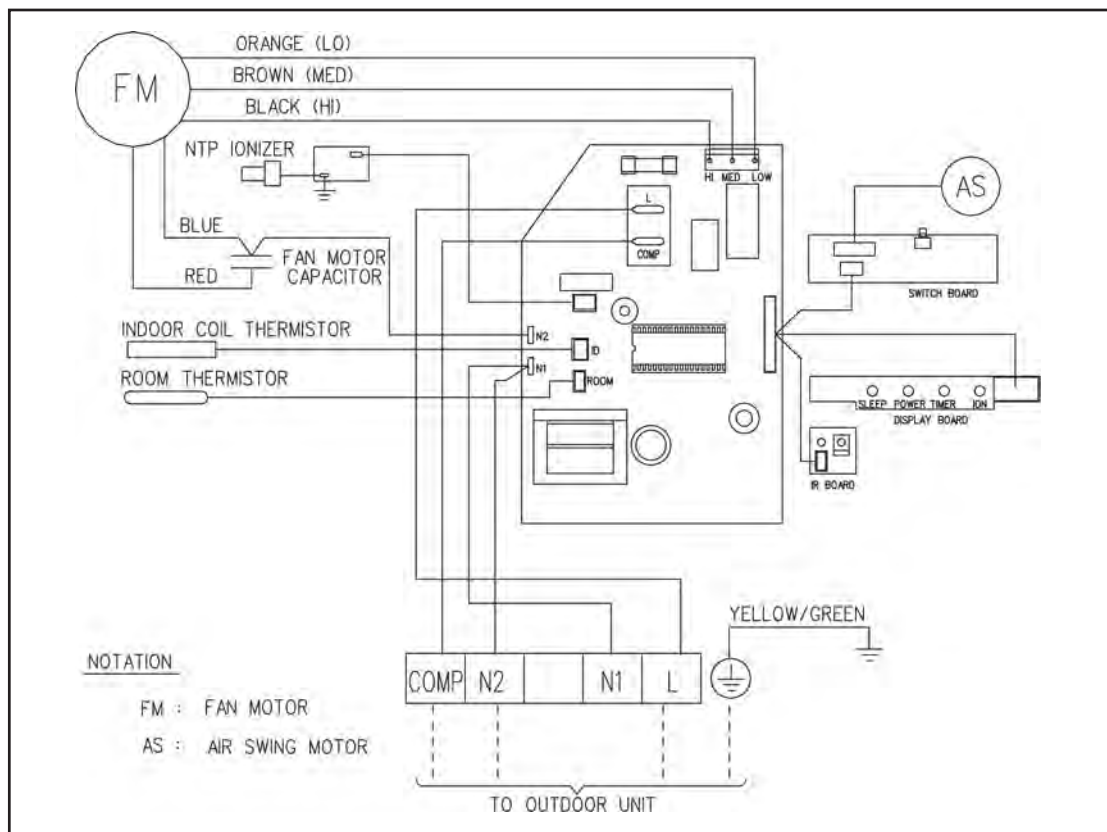




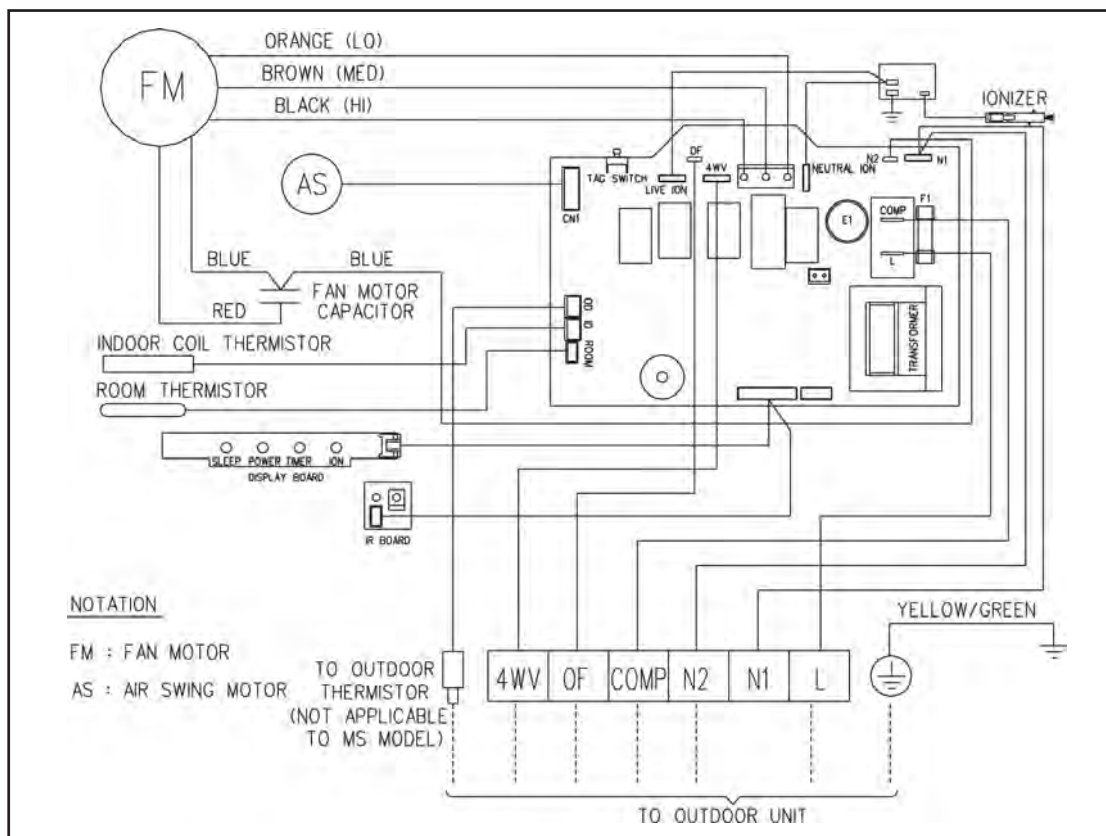
**INDOOR UNIT - COOLING ONLY**  
**MODEL : MWM 020/025G (IONIZER)**



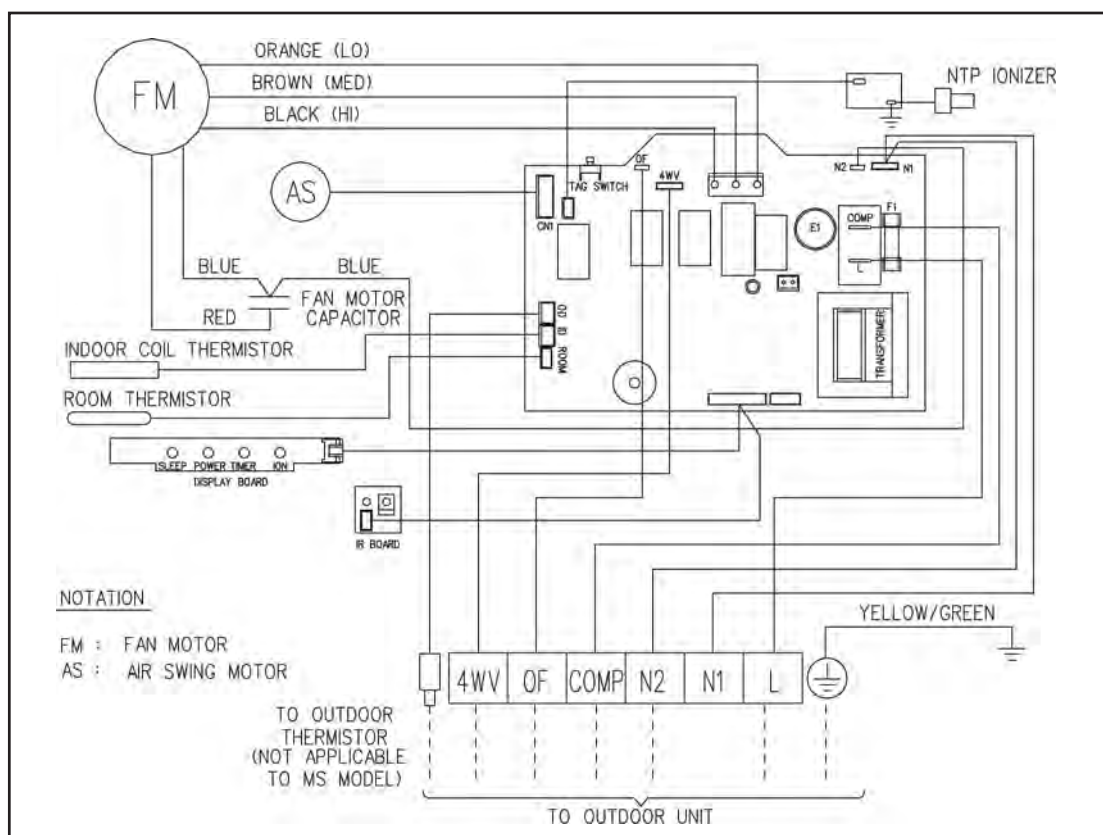
**MODEL : MWM 020/025G (NTP)**



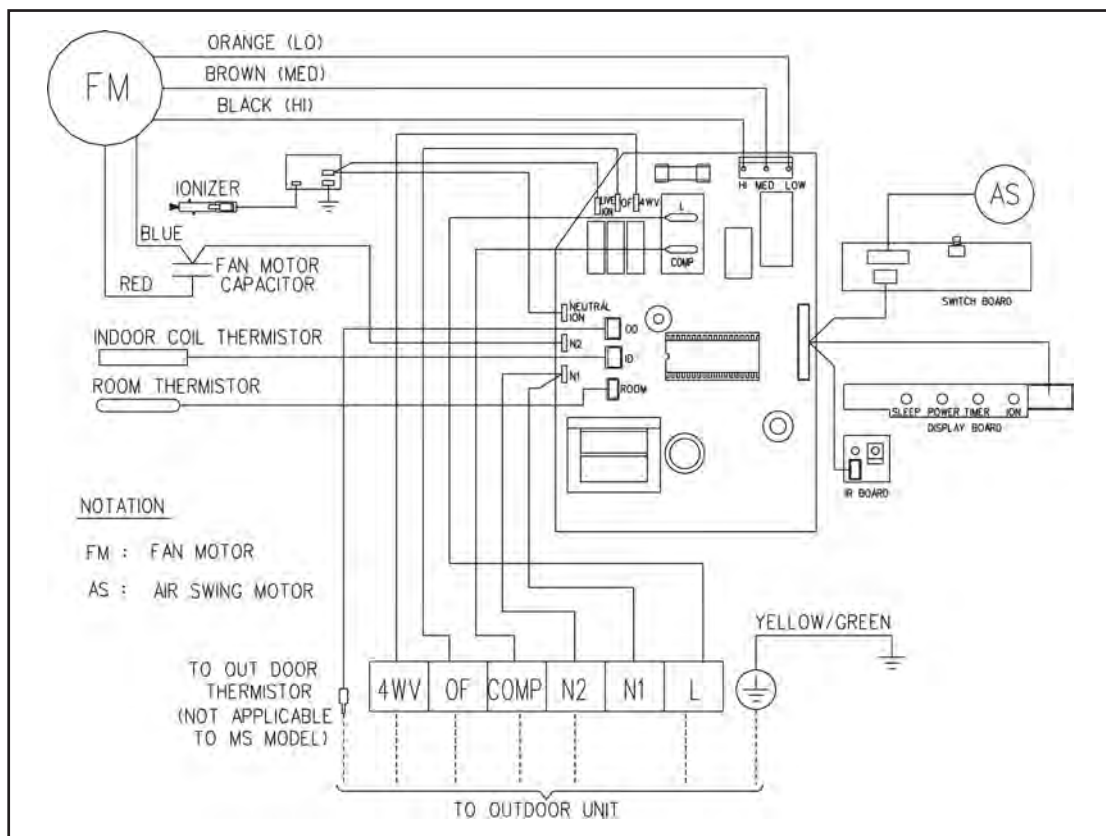
**INDOOR UNIT - HEATPUMP  
MODEL : MWM 010/015GR (IONIZER)**



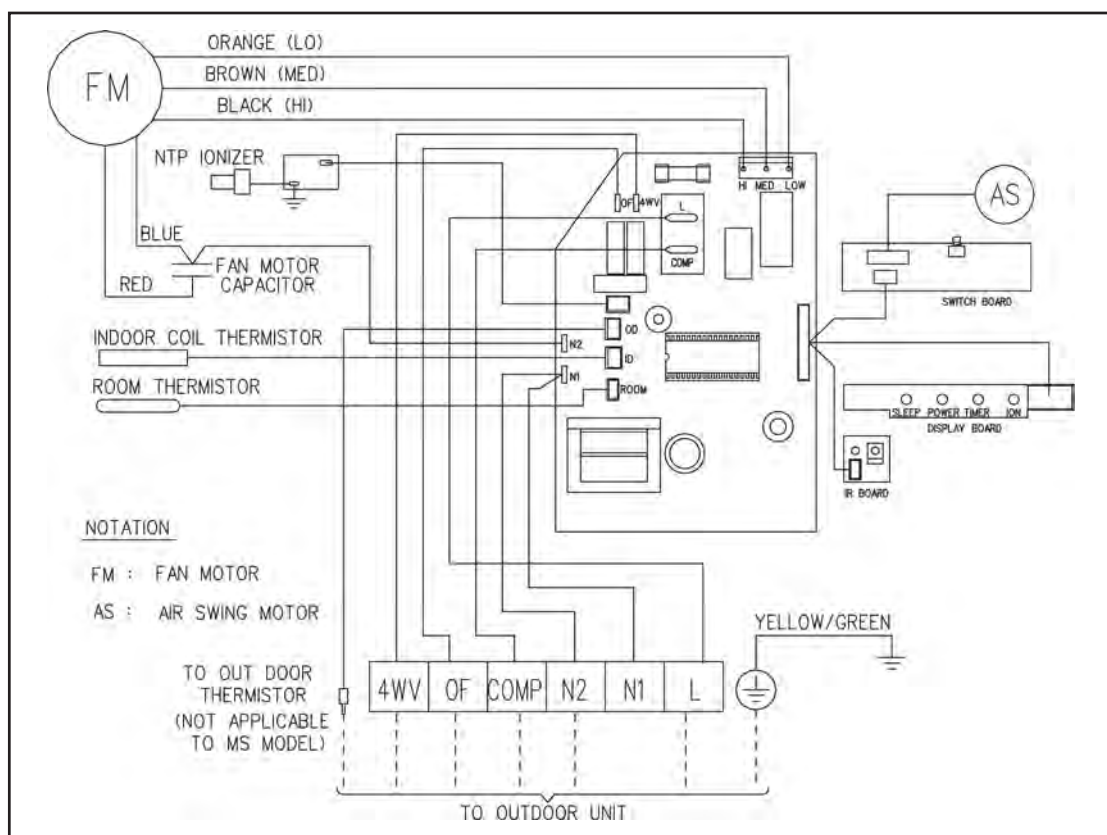
**MODEL : MWM 010/015GR (NTP)**



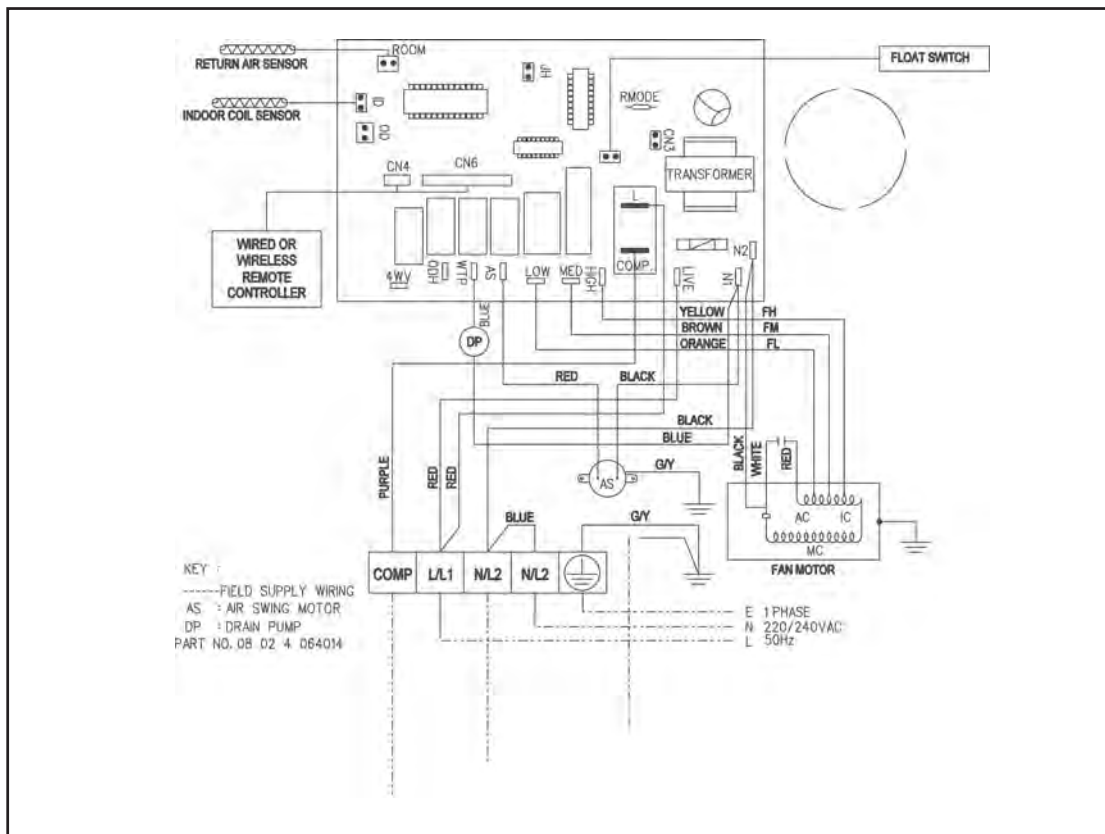
**INDOOR UNIT - HEATPUMP  
MODEL : MWM 020/025GR (IONIZER)**



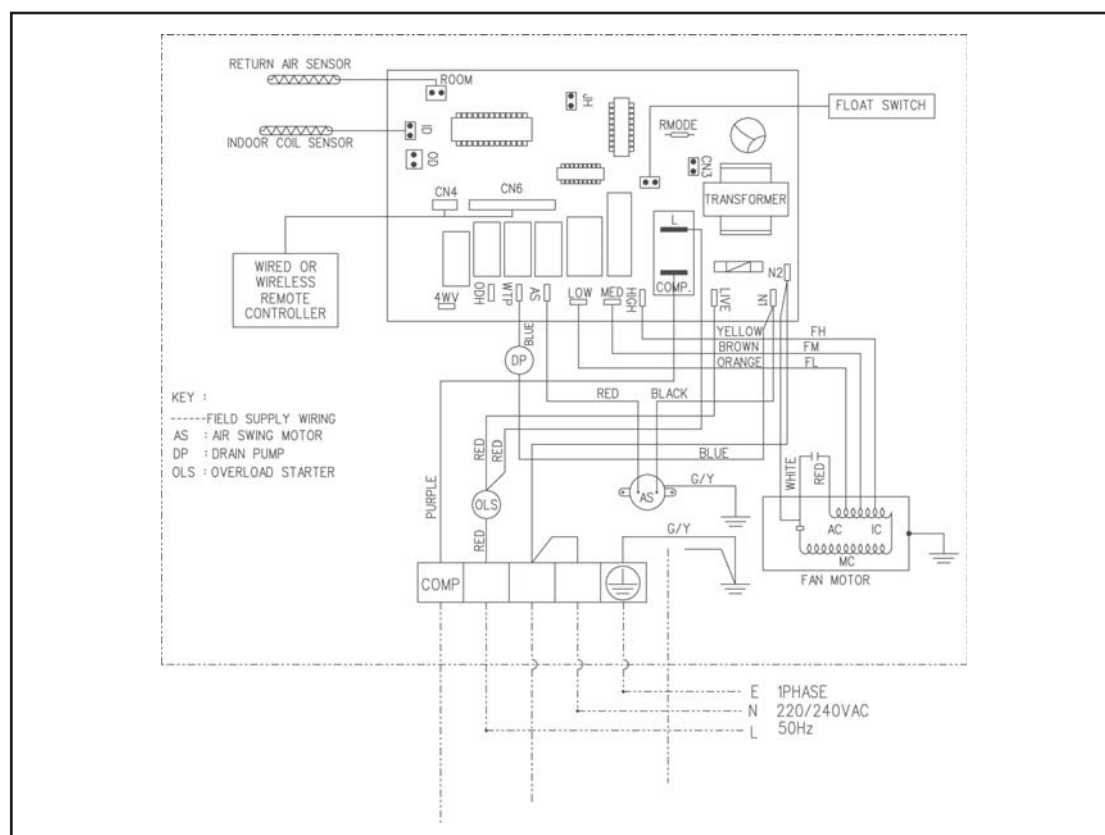
**MODEL : MWM 020/025GR (NTP)**



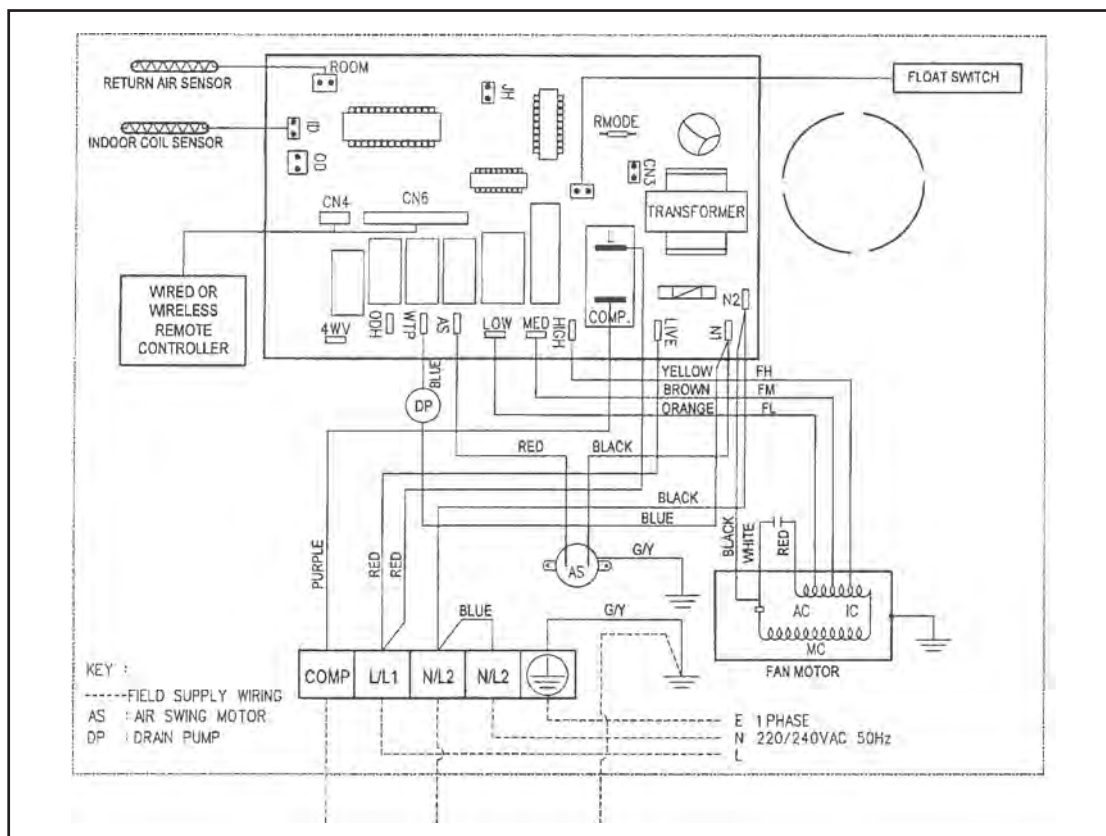
**INDOOR UNIT**  
**MODEL : MCK 010C**



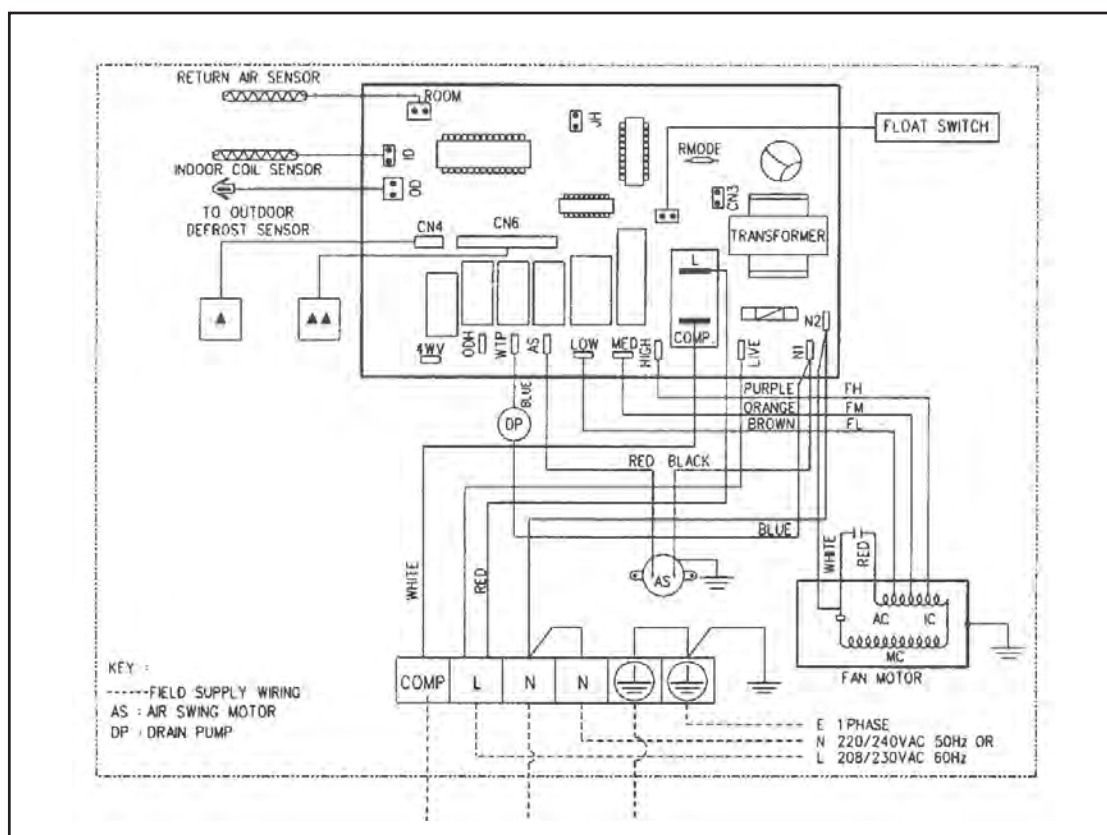
**MODEL : MCK 015C**



**INDOOR UNIT**  
**MODEL : MCK 020C**

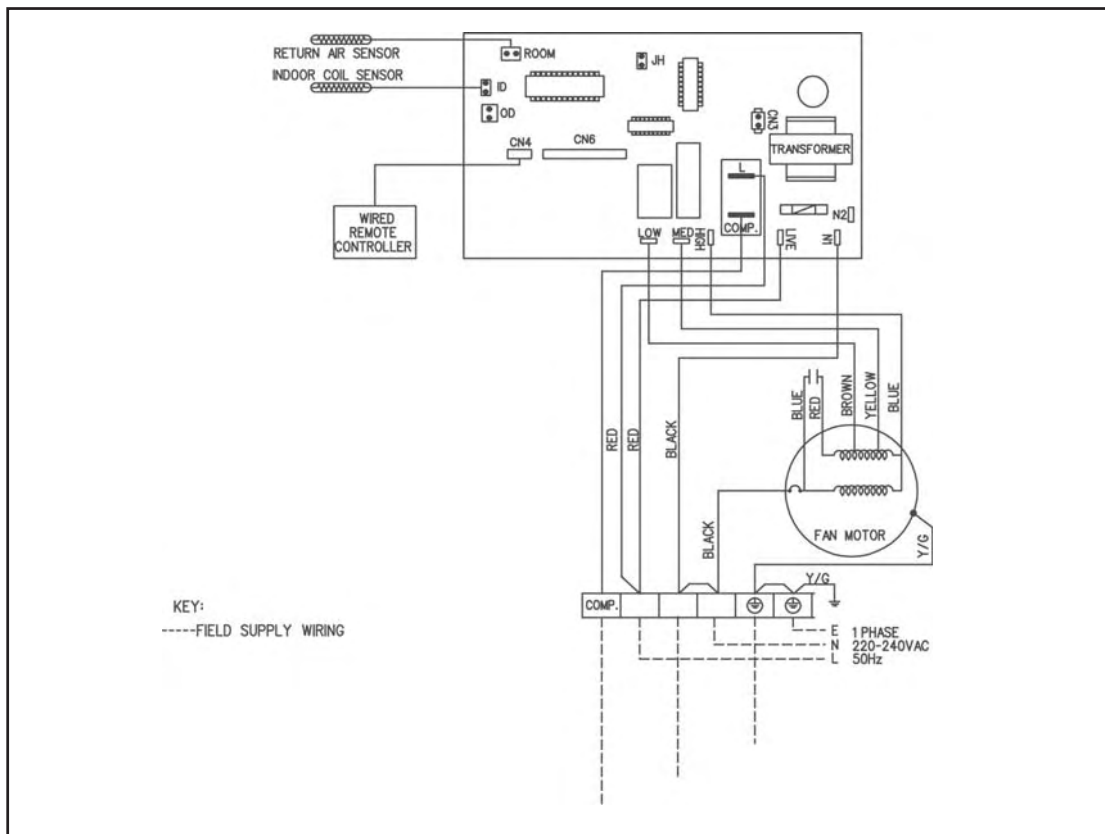


**MODEL : MCK 025A**

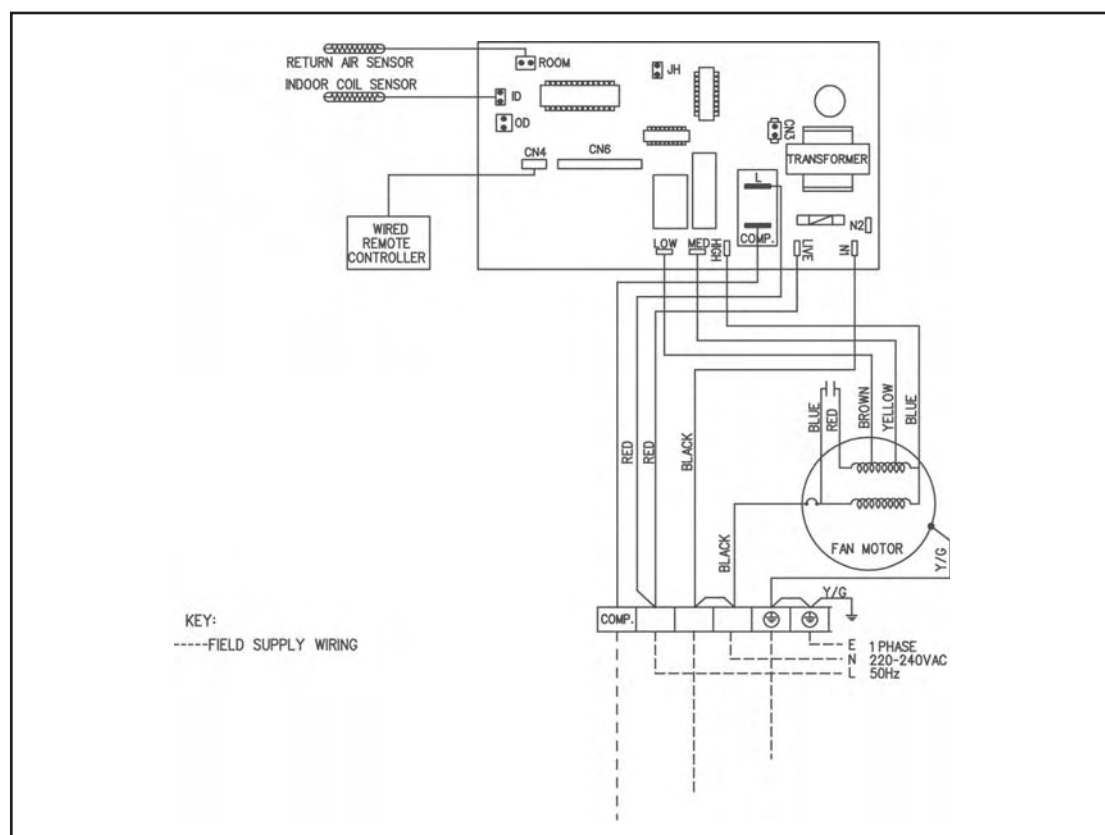




**INDOOR UNIT**  
**MODEL : MCC 010C**

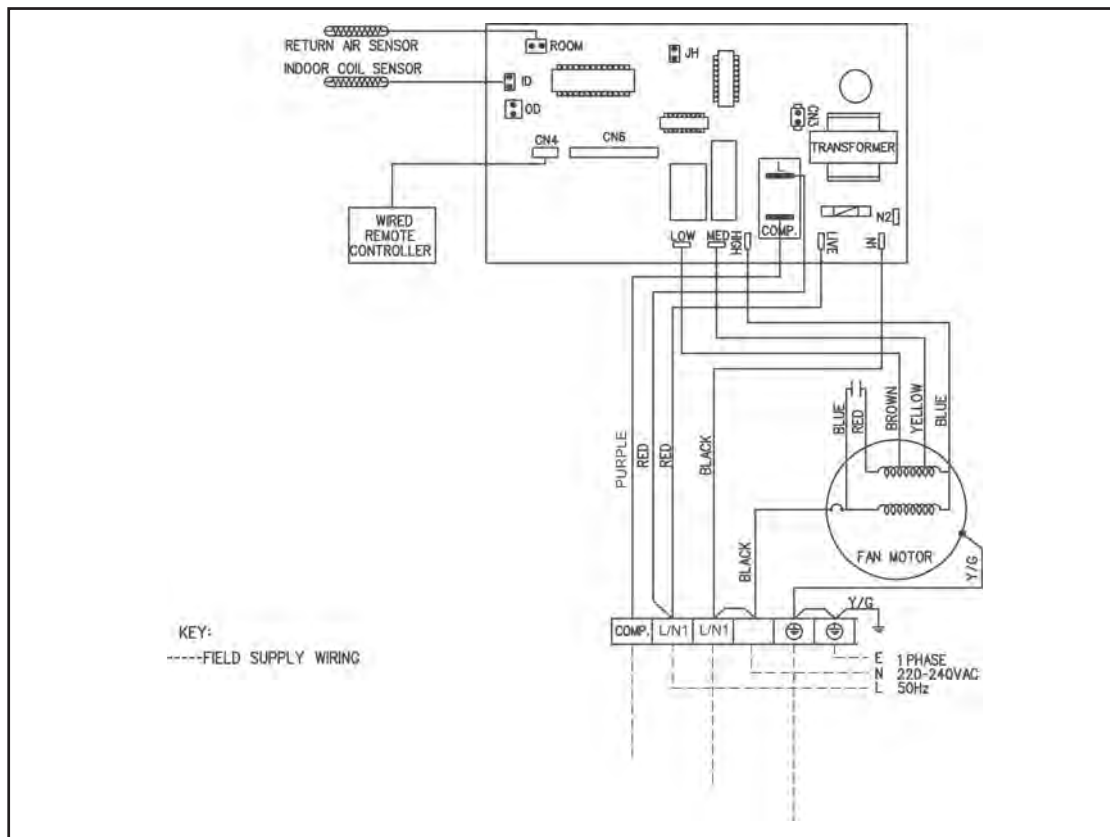


**MODEL : MCC 015C**





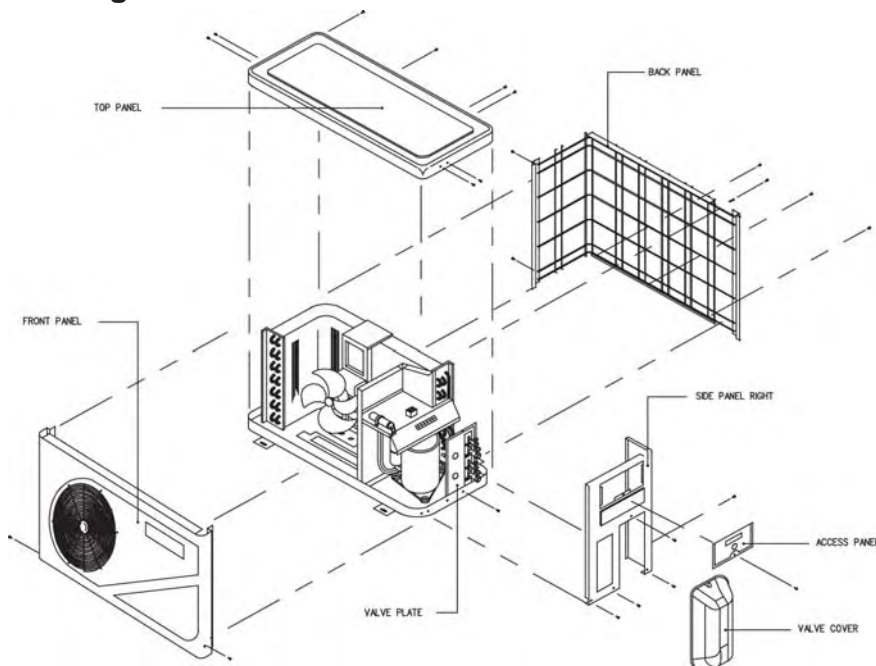
**INDOOR UNIT**  
**MODEL : MCC 020/ 025 C**



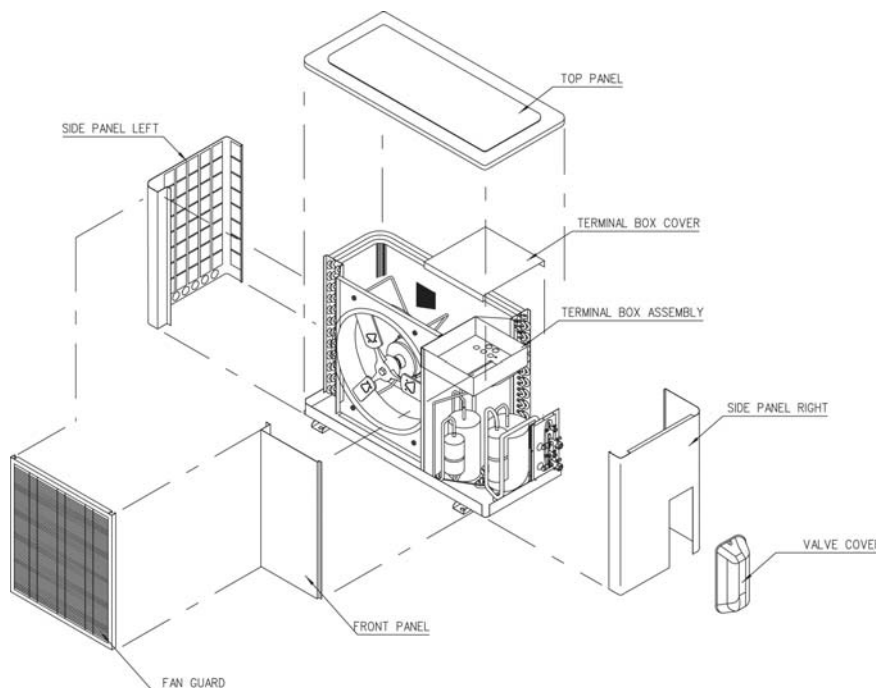
# Servicing and Maintenance

The design of the M(4)MSD, M(4)MST, and MMSH outdoor series allows servicing to be carried out readily and easily. The removal of the top, side, front, and back panel make almost every part accessible.

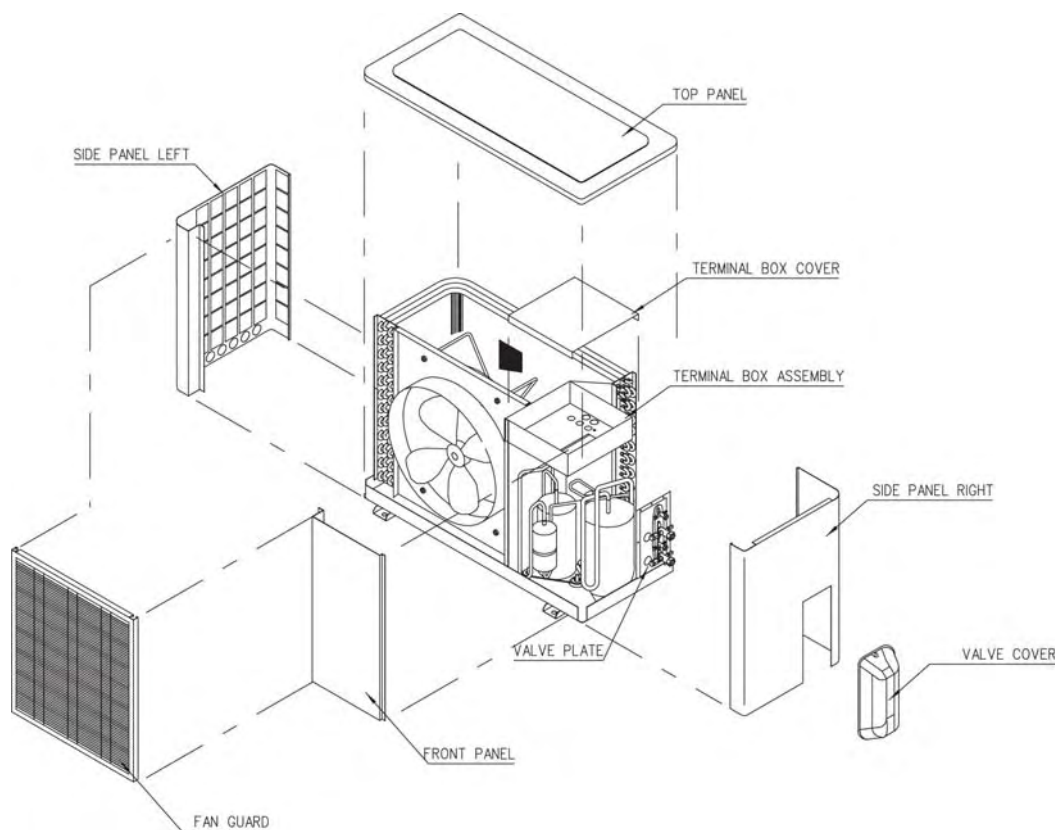
**MODEL : Cooling - MMSD/M4MSD 1010 / 1015 / 1515 A**  
**Heatpump - MMSD/M4MSD 1010 / 1015 / 1515 AR**  
**Cooling - MMSH 8K8 / 8K66 / 66K66 / 66K555 / K77 A**



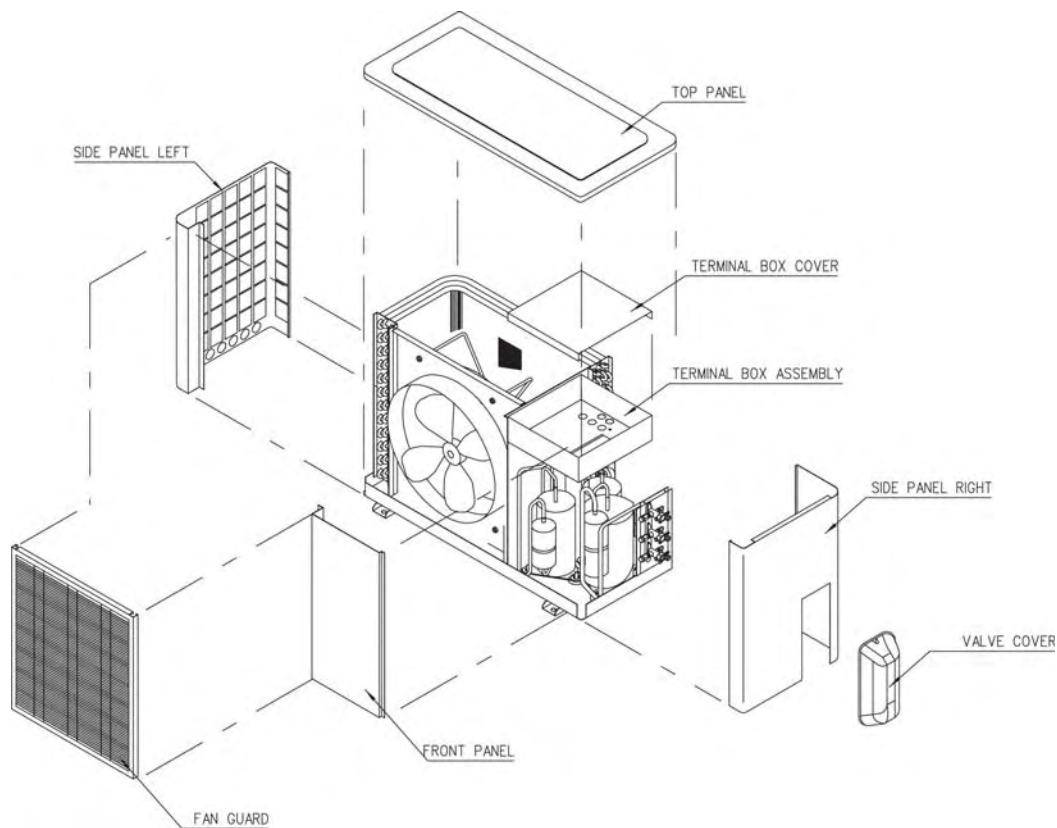
**MODEL : Cooling - MMSD1020 / 1520A**  
**Heatpump - MMSD1520AR**



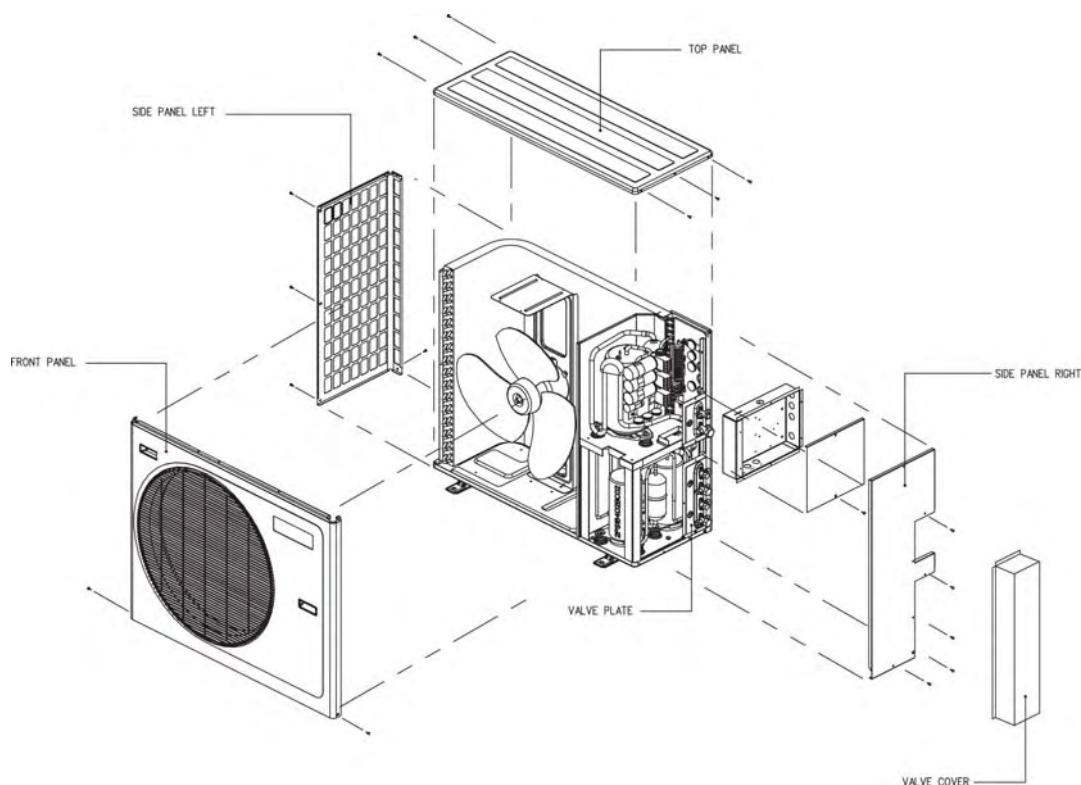
**MODEL : MMSD 2020A**



**MODEL : MMST 101010 / 101015 / 101515 / 151515 A/AR  
MMST 101020 / 101520 / 151520 A  
M4MST 101010 / 101015 / 101515 / 151515 A/AR**



## MODEL : MMST 101025 / 101520 / 101525 / 151520 / 151525 A



Under normal circumstance, these outdoor units require a check and cleaning of air intake coil surface once quarterly. However, if a unit is installed in areas subjected to much oil mist and dust, the coils must be regularly cleaned by qualified Air Conditioner Service Technicians to ensure sufficient heat exchange and proper operation. Otherwise, the system's life span may be shortened.

### CAUTION!

Do not charge OXYGEN, ACETYLENE OR OTHER FLAMMABLE and poisonous gases into the unit when performing a leakage test or an airtight test. These gases could cause severe explosion and damage if exposed to high temperatures and pressures.

It is recommended that only nitrogen or refrigerant be charged when performing the leakage or airtight test.

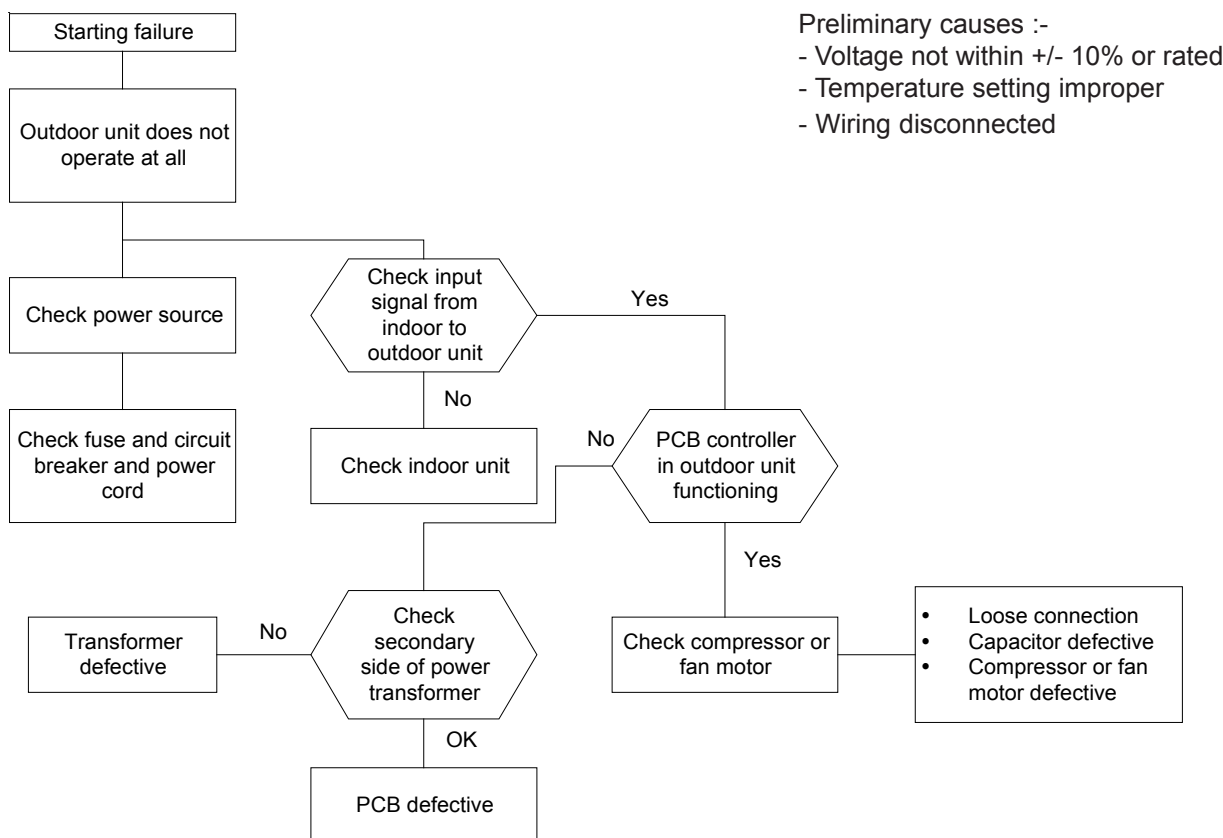
# Troubleshooting

When any air conditioner malfunction is noted, immediately switch off the power supply to the unit and contact the local dealer, if necessary. Some simple troubleshooting tips are given below :

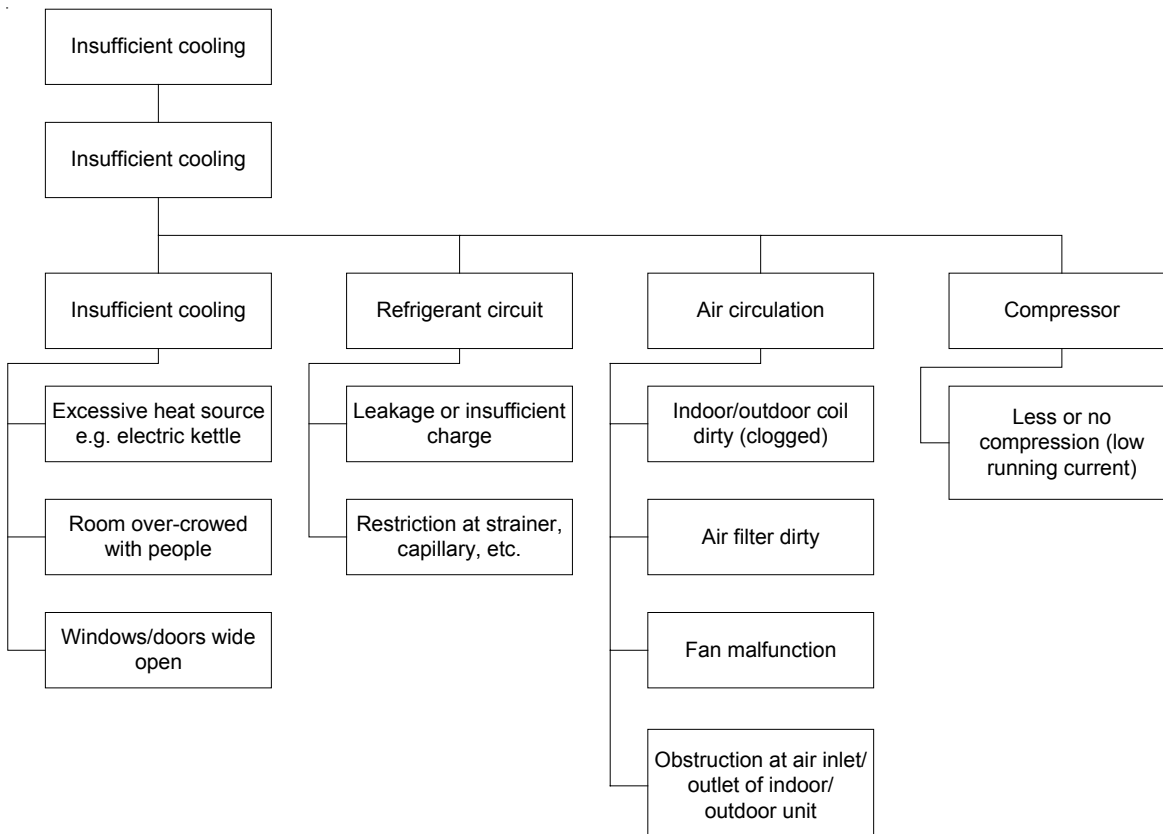
TROUBLE	PROBABLE CAUSE	SUGGESTED ACTION
1. Fan does not work	1. No power supply 2. Fan capacitor faulty 3. Fan motor faulty 4. Switch faulty	1. Check power supply 2. Contact local dealer 3. Contact local dealer 4. Change switch
2. Fan works, but compressor does not work	1. Thermostat setting too high 2. Compressor capacitor faulty 3. Compressor faulty 4. Compressor contactor faulty	1. Reset thermostat 2. Contact local dealer 3. Contact local dealer 4. Contact local dealer
3. Both fan and compressor does not work	1. Power failure 2. Starter trip 3. Fuse blown in power switch or operating unit	1. Operate when power supply resume 2. Reset starter 3. Check and replace fuse
4. Air-Conditioner works but cooling not satisfactory	1. Thermostat setting too high 2. Door and/or windows not closed 3. Condenser coil dirty 4. Some objects blocking the inlet and/or outlet of the unit 5. Refrigerant charge too low	1. Reset thermostat 2. Close door and/or windows 3. Clean condenser coil 4. Remove the objects 5. Contact local dealer

Generally, there are two kinds of common problems, i.e. starting failure and insufficient cooling. "Starting failure" is caused by electrical defect while "insufficient cooling" is caused by improper application or defects in refrigerant circuit.

## DIAGNOSIS OF STARTING FAILURE



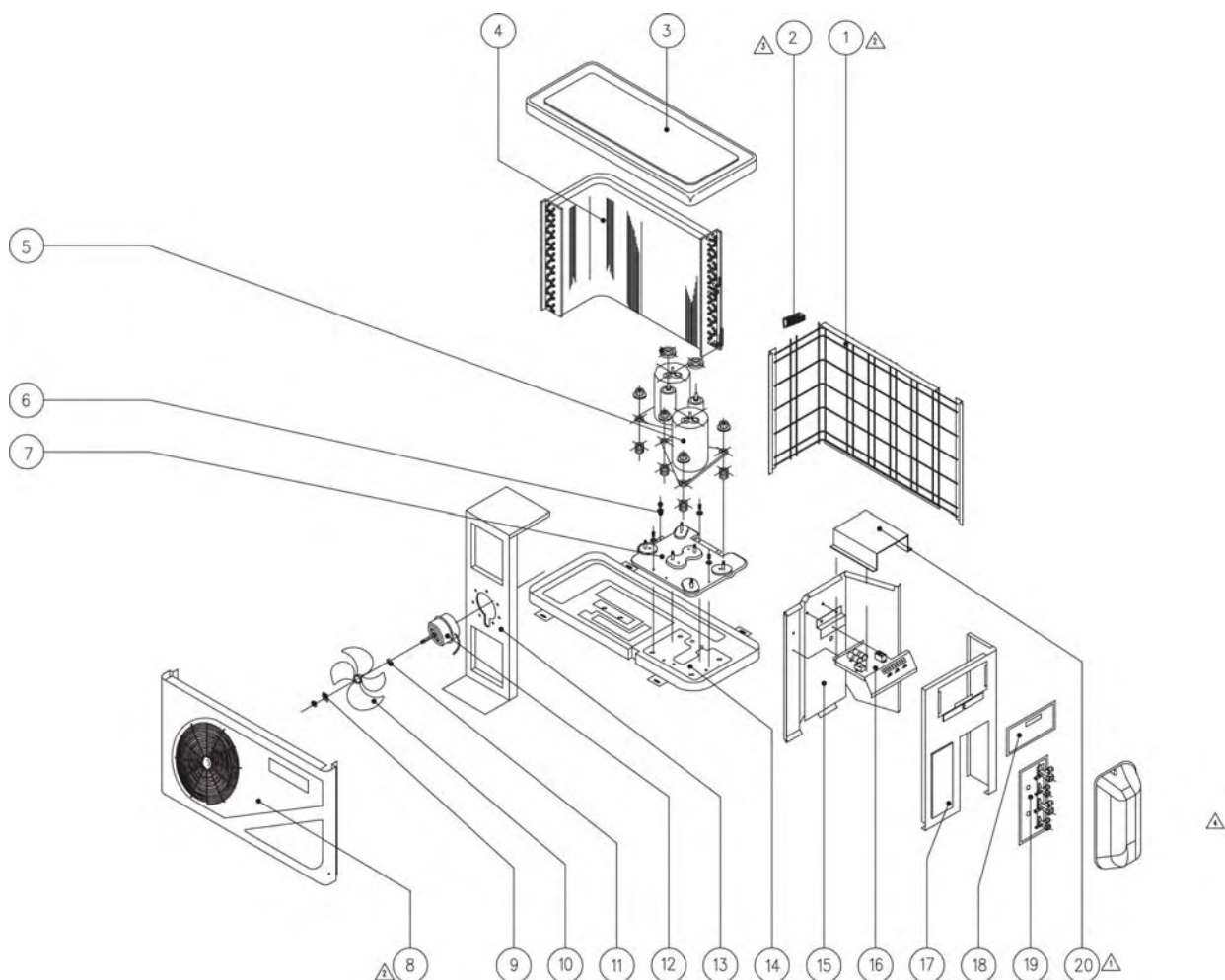
## DIAGNOSIS OF INSUFFICIENT COOLING





# Exploded View & Parts List

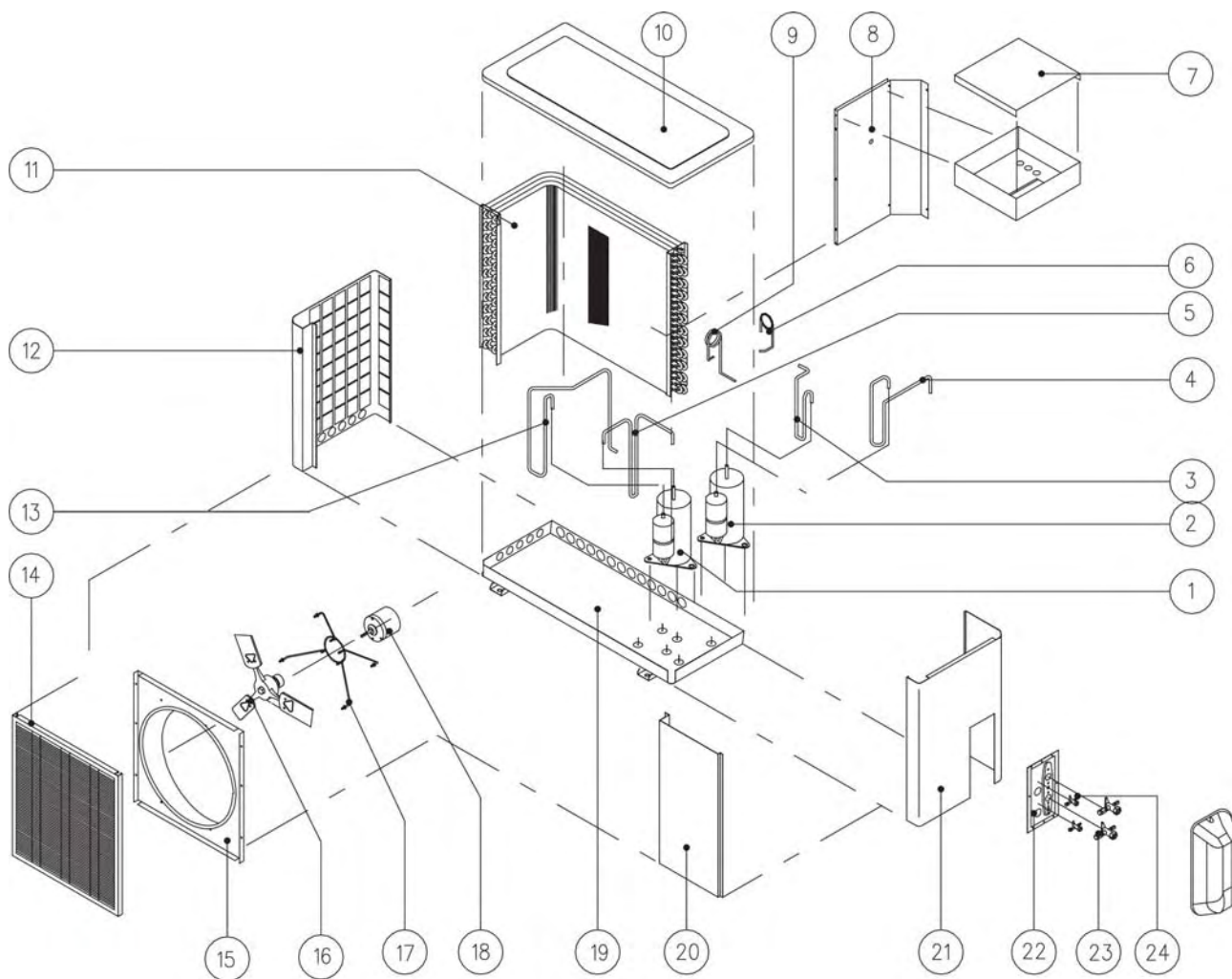
MODEL : MMSD / M4MSD 1010 / 1015 / 1515 A/AR



No	Description	Part No.
1	ASSY, GRILLE BACK	R50014043394
2	HANDLING HANDLE	R12014040467
3	TOP PANEL	R01010011397
4	CONDENSER COIL ASSY MSD1010A	
	M(4)MSD1010A/AR	R50024033574
	M(4)MSD1015A/AR	R50024029462
	M(4)MSD1515A/AR	R50024029462
5	COMPRESSOR	
	MSD1010A/AR,1015A/AR	R04019007793
	MSD1015A/AR,1515A/AR	R04019006193
	M4MSD1010A/AR,1015A/AR	R04019010747
	M4MSD1015A/AR,1515A/AR	R04019010748
6	SPRING WASHER	R07044003769
7	PLATE, COMP. MOUNTING	R01014023236
8	ASSY, PANEL FRONT	R50014045826
9	SQUARE WASHER	R07044013819
10	FAN BLADE 16"	R03019000016
11	RING WASHER	R07044013820

No	Description	Part No.
12	FAN MOTOR F634P80 220V/80W	R03039000057
13	FAN MOTOR BRACKET	R01010011398
14	BASE PAN ASSY.	R50014024444
15	ASSY, PARTITION	R50014025946
16	TERMINAL BOX ASSY	
	M(4)MSD1010A/1015A/1515A	R50014029946
	M(4)MSD1010AR/1015AR/1515AR	R50014044394
17	SIDE PANEL	R01014057916
18	ACCESS PANEL ASSY	R50124030723
19	PLATE, FLARE VALVE	R01014015714
20	COVER, TERMINAL BOX	
	M(4)MSD1010A/1015A/1515A	R01014030098
	M(4)MSD1010AR/1015AR/1515AR	R01014037337
Parts not in diagram		
21	CONTROL MODULE, MS5 MR1 AP 2 COMP	
	M4MSD1010AR / 1015AR / 1515AR	R04089028457
	MMSD1010AR / 1015AR / 1515AR	A04089005046

**MODEL : MMSD 1020A / 1520A**

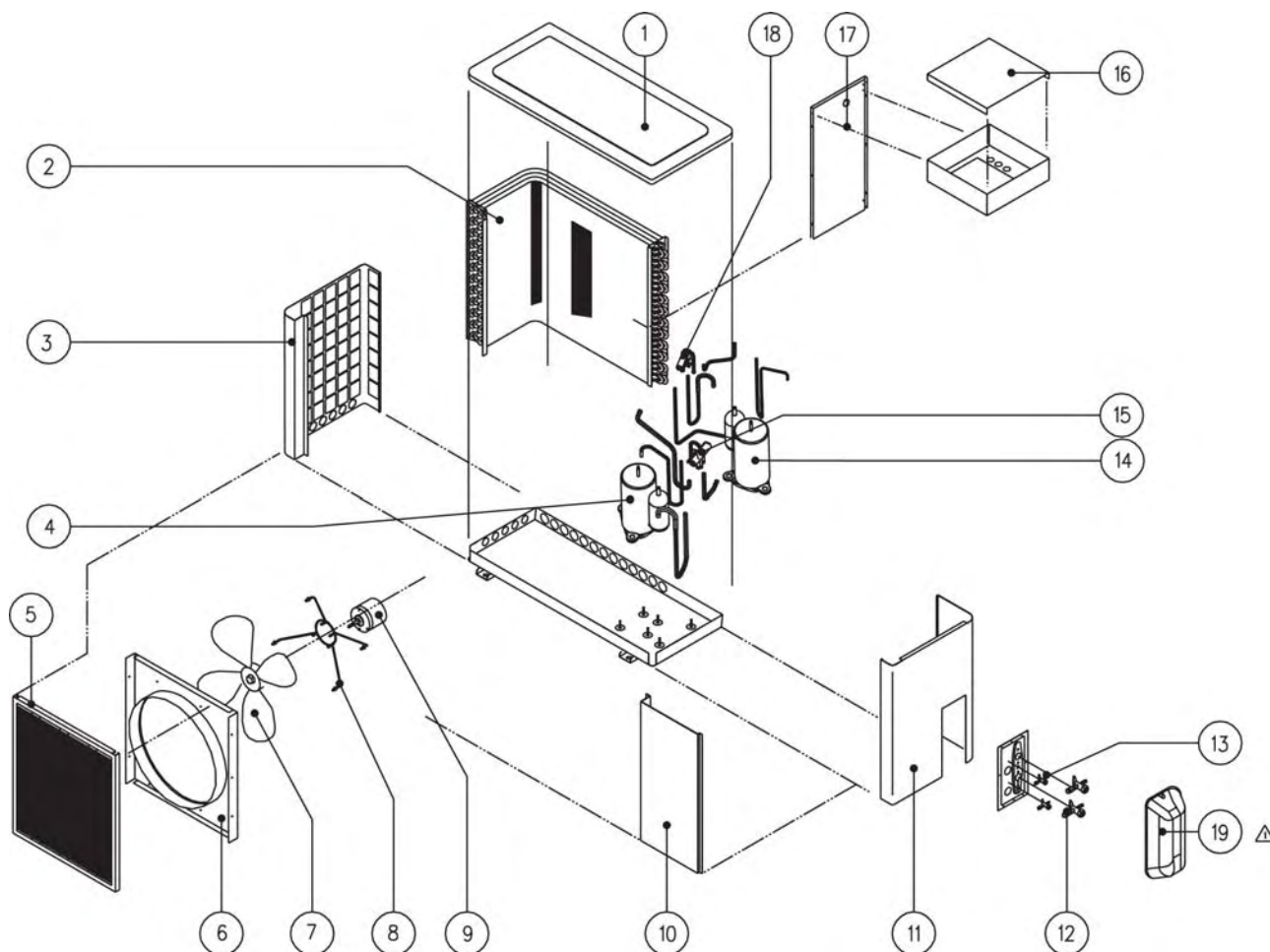


## MODEL : MMSD 1020A / 1520A

No	Description	Part No.
1	COMPRESSOR	
	MMSD1020A	R04019007793
	MMSD1520A	R04019006193
2	COMPRESSOR	
	MMSD1020A / 2020A	R04019009667
3	TUBE, DISCHARGE 1	
	MMSD1020A / 1520A	R02014032186
	MMSD2020A	R02014032167
4	TUBE, SUCTION 1	
	MMSD1020A / 1520A	R02014032187
	MMSD2020A	R02014032165
5	TUBE, DISCHARGE 2	
	MMSD1020A	R02014032182
	MMSD1520A/AR	R02014032183
	MMSD2020A	R02014032168
6	ASSY, CAPILLARY TUBE 2	
	MMSD1020A	R50024032222
	MMSD1520A	R50024032224
	MMSD2020A	R50024032161
7	COVER, TERMINAL BOX	R01014032384
8	PARTITION	R01014024849
9	ASSY, CAPILLARY TUBE 1	
	MMSD1020A / 1520A	R50024032223
	MMSD2020A	R50024032163
10	PANEL, TOP MSD1020/MST	R01014020372
11	ASSY, COIL	
	MMSD1020A	R50024020201
	MMSD1520A	R50024030339
	MMSD1520A	R50024029885
12	PANEL, SIDE LEFT	
	MMSD1520A	R01014028165
	MMSD2020A	
13	TUBE, SUCTION 2	
	MMSD1020A	R02014032185
	MMSD1520A	R02014032184
	MMSD2020A	R02014032166

No	Description	Part No.
14	FAN GUARD MST/MSD	R01014027516
15	ORIFICE	
	MMSD1020A / 1520A	R01014018776
16	FAN PROPELLER	
	MMSD2020A	R50014025412
17	BRACKET, FAN MOTOR MST	
	MMSD1020A / 1520A	R03014020222
	MMSD2020A	R03014025700
18	MOTOR	
19	ASSY, BASE PAN	
	MMSD1020A / 1520A	R50014020360
20	FRONT PANEL	R01014028169
21	PANEL SIDE	R01014028304
22	ASSY, VALVE PLATE	
	MMSD1020A / 1520A	R50019004228
	MMSD2020A	R50019004229
23	VALVE, FLARE 2 WAY 1/4" OV-5832	R50059000220
24	FLARE VALVE	
	MMSD1020A	R50059000221
	MMSD1520A	R50059000070
	MMSD2020A	R50059004039
	MMSD1020A / 1520A / 2020A	R50054028879
	MMSD1020A / 1520A / 2020A	R50059004037
	MMSD2020A	R50059004039
Parts not in diagram		
25	CAPACITOR	
	MMSD1020A / 1520A	A04024012931
	MMSD2020A	A04024031242
	CONTACTOR	
	MMSD1020A / 1520A	A04034037030
	MMSD2020A	A04034002170
	RUBBER, CUSHION	A11054046001

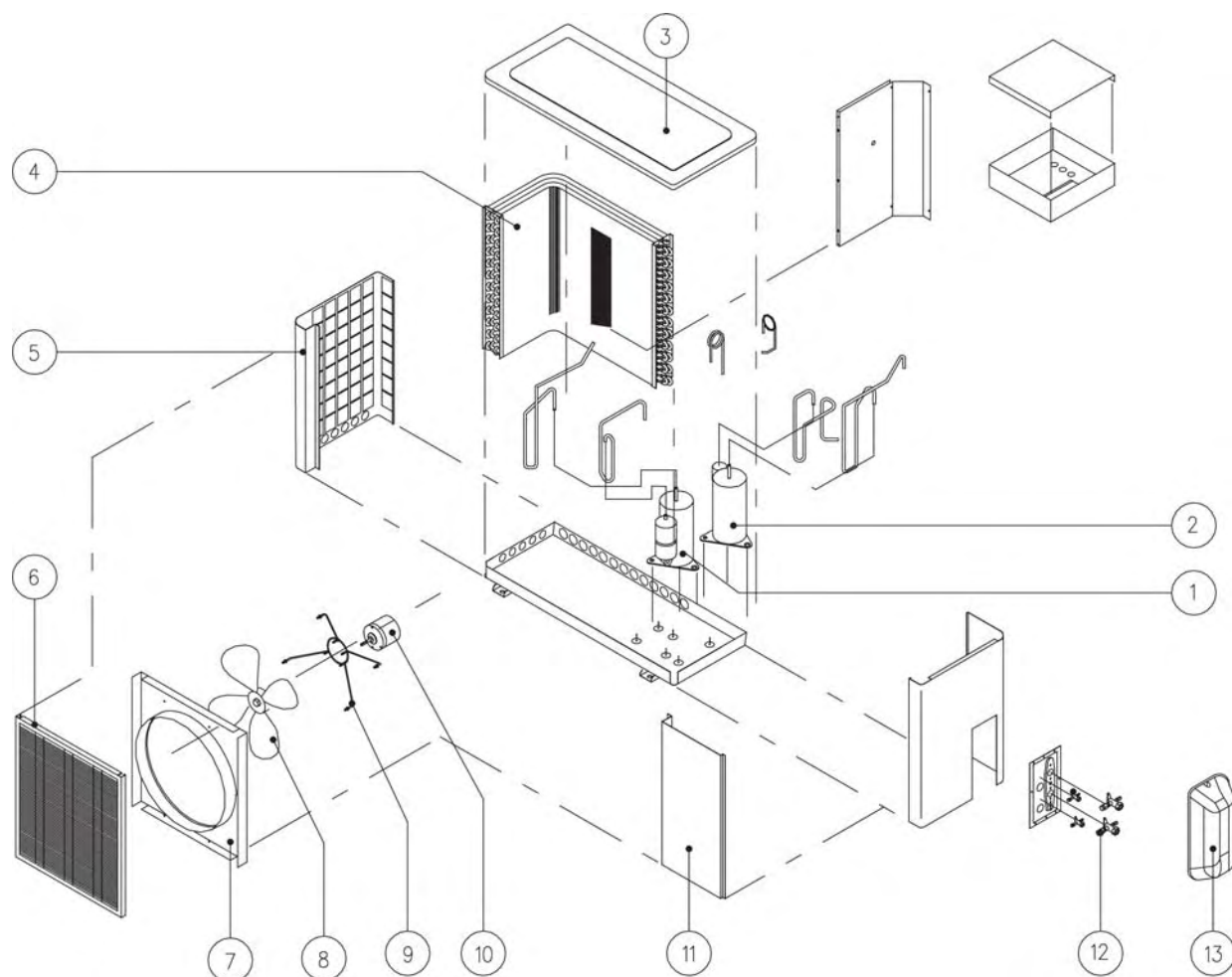
## MODEL : MMSD 1520AR



No	Description	Part No.
1	PANEL TOP	R01014020372
2	ASSY, CONDENSER COIL	R50024029885
3	ASSY, SIDE PANEL LEFT	R01014028165
4	COMPRESSOR	R04019009667
5	ASSY, FAN GUARD	R01014027516
6	ASSY, ORIFICE	R50014025412
7	FAN PROPELLER	R03019022348
8	MOTOR BRACKET	R01024057493
9	MOTOR	R03039022528
10	ASSY, FRONT PANEL	R01014028169
11	ASSY, SIDE PANEL	R01014025851
12	VALVE, FLARE 3 WAY 1/2" OV-6253	R50054030616
13	VALVE, FLARE 2 WAY 1/4" OV-5832	R50059000220
14	COMPRESSOR	R04019006193
15	VALVE, REV 4 WAYS RJL (V26110B)	R05019004158
16	COVER, TERMINAL BOX	R01014031538
17	PARTITION	R01014025852
18	VALVE, REV 4 WAYS RJL (VH7100B)	R05019004157

No	Description	Part No.
19	VALVE COVER	R12014057544
Parts not in diagram		
20	BUSH, WIRE NR ID22xODx36t10	R11014001876
	CAP, FLARE (1/2" - NYLON TYPE)	R12014030742
	CAP, FLARE (1/4" - NYLON TYPE)	R12014043526
	CAP, FLARE (5/8" - NYLON TYPE)	R12014030743
	CAPACITOR, CMPSR30μF/450VAC SHIZUKI	R04029026775
	CAPACITOR, CMPSR5μF/450VAC 50/60Hz SHIZUKI	R04029026966
	CCPACITOR, CMPSR45μF/450VAC SHIZUKI	R04029026778
	GROMMET RUBBER 7070823	R11054000271
	NUT,FLARE BRASS 1/4"	R05019000223
	PCB CONT. MS005 AP 2 COMP	A04089005046
	TERMINAL, BLOCK 30amp T3019-1-3P-C1.0	R0411014951
	TUBE, CU SENSOR HOLDER	R02014021112

# MODEL : MMSD 2020A

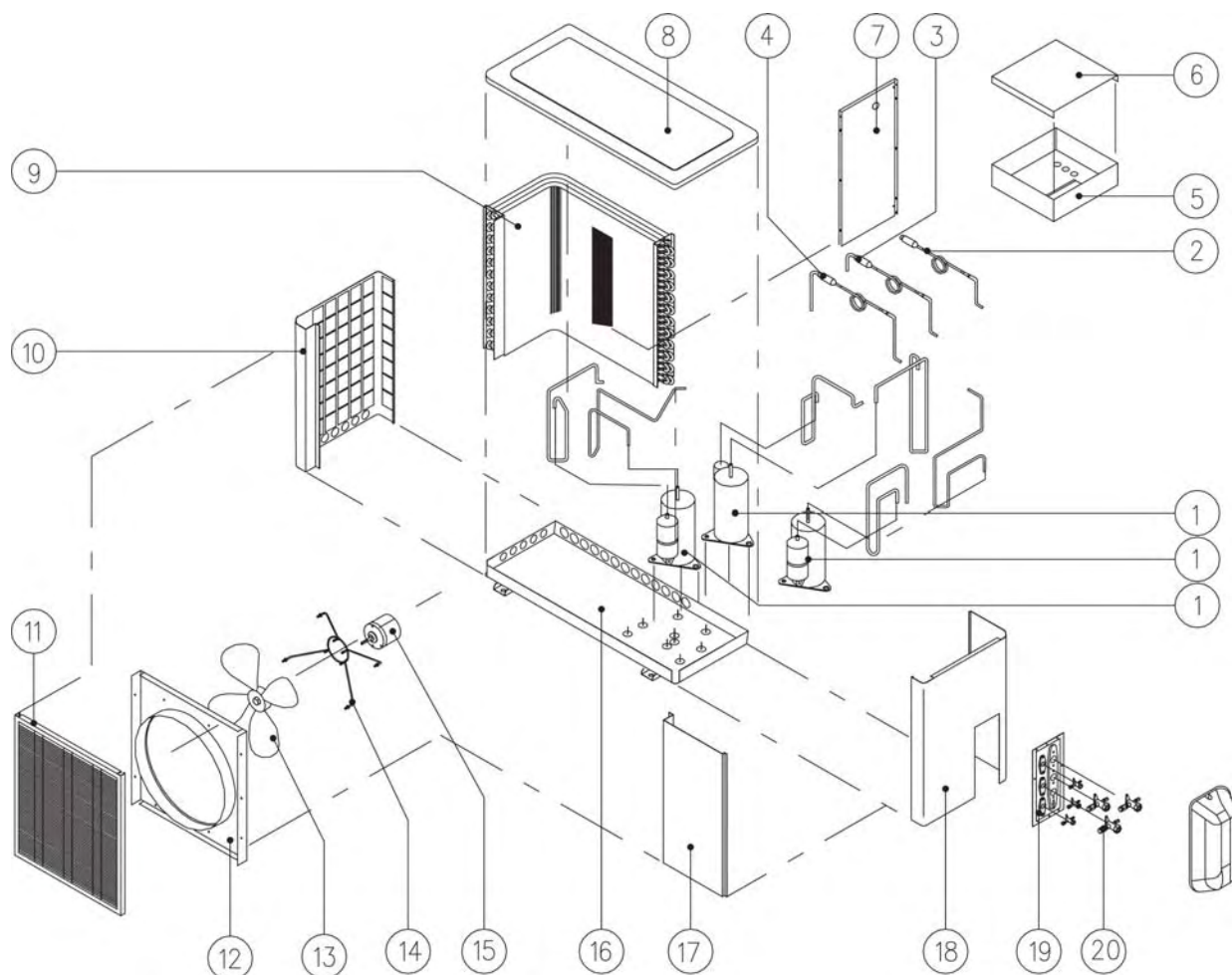


No	Description	Part No.
1	COMPRESSOR	R04019009667
2	COMPRESSOR	R04019009667
3	TOP PANEL	R01014020372
4	ASSY, COIL	A50024022518
5	PANEL, SEDE LEFT	R01014028165
6	FAN GUARD	R01014027516
7	ORIFICE	R50014025412
8	FAN PROPELLER	R03019022348
9	FAN MOTOR BRACKET	R01024057493
10	FAN MOTOR	R03039022528
11	PANEL FRONT	R01014028169
12	FLARE VALVE	
	VALVE, FLARE 3 WAY 5/8" OV-6063	R50059004037
	VALVE, FLARE 2 WAY 1/4" OV-5832	R50059000220
	FLARE VALVE 5/8" OV-6047	R50059004039
	FLARE VALVE 1/4" MINI OV-5962	R50054028879

No	Description	Part No.
13	VALVE COVER	R12014057544
Parts not in diagram		
14	BUSH, WIRE NR ID22xODx36t10	R11014001876
	CAP, FLARE (1/4" - NYLON TYPE)	R12014043526
	CAP, FLARE (5/8" - NYLON TYPE)	R12014030743
	CAPACITOR, CMPSR5 $\mu$ F/450VAC 50/60Hz SHIZUKI	R04029026966
	CCPACITOR, CMPSR45 $\mu$ F/450VAC SHIZUKI	R04029026778
	GROMMET RUBBER 7070823	R11054000271
	NUT,FLARE BRASS 1/4"	R05019000223
	TERMINAL, BLOCK 30amp T3019-1-3P-C1.0	R04114014951
	CONTACTOR, FC-O INO 1A 240VAC FUJI	R04034002170



**MODEL : MMST 101010 / 101015 / 101515 / 151515 A/AR, 101020A  
M4MST 101010 / 101015 / 101515 / 151515 A/AR**



No	Description	Part No.
1	COMPRESSOR	
	MMST101010A/AR / 101015A/AR / 101515 A/AR, 101020A	R04019007793
	M4MST101010A/AR / 101015A/AR / 101515A/AR	R04019010747
	MMST101015A/AR / 101515A/AR / 151515A	R04019006193
	M4MST101015A/AR / 101515A/AR / 151515A/AR	R04019010748
	MMST101020A	R04019014236
2	ASSY, CAP TUBE 1	
	MMST101010A, M4MST101010A	R50024026495
	MMST101015A / 101515A / 151515A, M4MST101015A / 101515A / 151515A	R50024026496
	M4MST101010AR / 101015AR / 101515AR	R50024058728
	M4MST151515AR	R50024058731
	MMST101010AR / 101015AR / 101515AR	A50024079847
	MMST151515AR	R50024079894
	MMST10102A	R50024031416

No	Description	Part No.
3	ASSY, CAP TUBE 2	
	MMST101010A / 101015A, M4MST101010A / 101015A	R50024026497
	MMST101515A / 151515A, M4MST101515A / 151515A	R50024026498
	M4MST101010AR / 101015AR	R50024058729
	M4MST101515AR / 151515AR	R50024058732
	MMST101010AR / 101015AR	A50024079850
	MMST101515AR / 151515AR	A50024079900
	MMST10102A	R50024031415
4	ASSY, CAP TUBE 3	
	MMST101010A / 101015A / 101515A, M4MST101010A / 101015A / 101515A	R50024026499
	MMST151515A, M4MST1515A	R50024026500
	M4MST101010AR	R50024059154
	M4MST101015AR / 101515AR / 151515AR	R50024028730
	MMST101010AR	A50024079853
	MMST101015AR / 101515AR / 151515AR	R50024079902
	MMST10102A	R50024031414

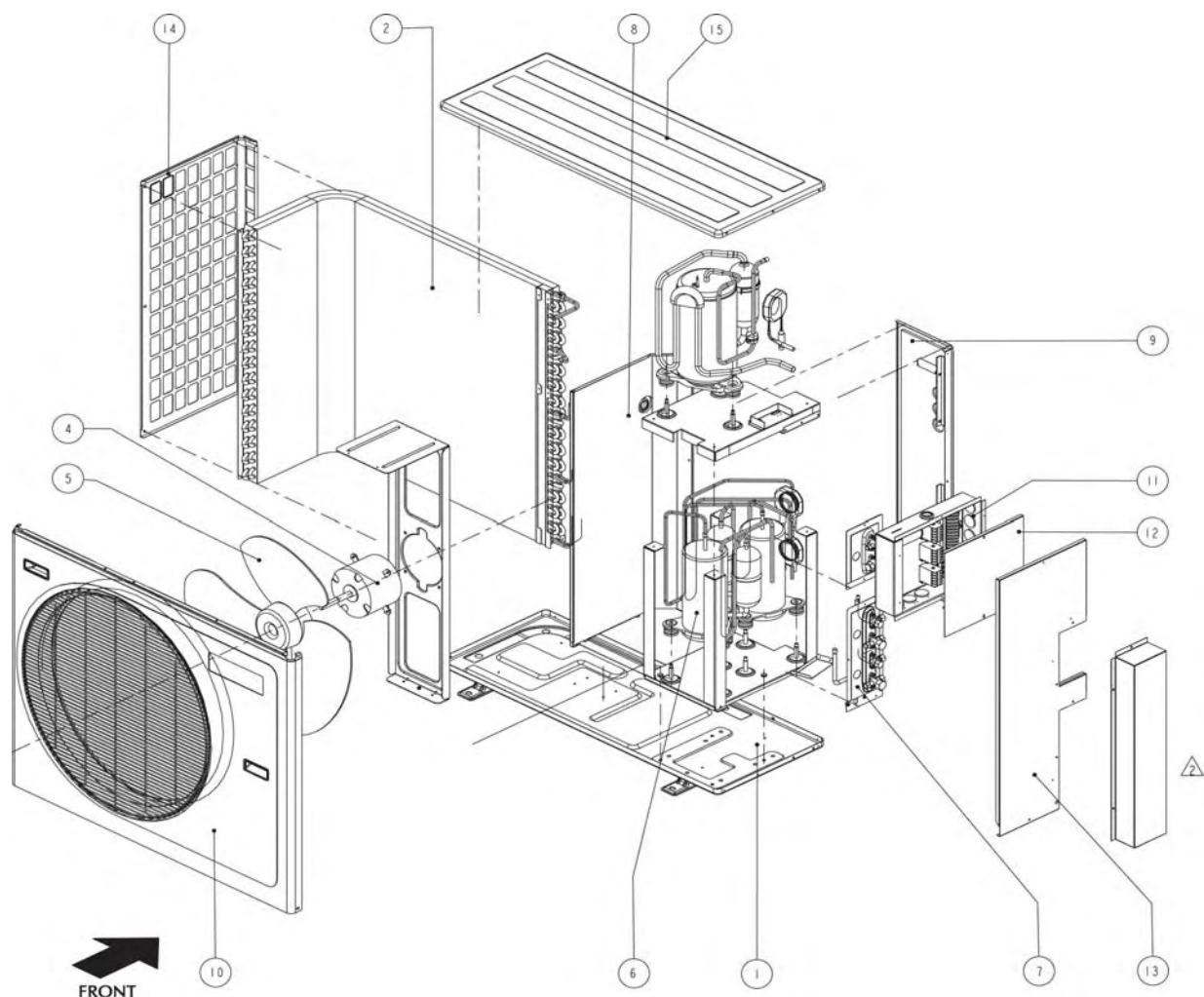


**MODEL : MMST 101010 / 101015 / 101515 / 151515 A/AR, 101020A  
M4MST 101010 / 101015 / 101515 / 151515 A/AR**

No	Description	Part No.
5	ASSY, TERMINAL BOX	
	MMST101010A / 101015A / 101515A / 151515A, M4MST101010A / 101015A / 101515A / 151515A	R50044074940
	MMST101010AR / 101015AR / 101515AR / 151515 AR	R50044055393
	M4MST101010AR / 101015AR / 101515AR / 151515 AR	R50044090060
	MMST10102A	R50044074941
6	COVER, TERMINAL BOX	
	MMST101010A/AR / 101015A/AR / 101515A/AR / 151515 A/AR, M4MST101010A/AR / 101015A/AR / 101515A/AR / 151515A/AR, 101020A	R01014031538
7	PARTITION	R01014025852
8	TOP PANEL	R01015020372
9	ASSY, CONDENSER COIL	
	MMST101010A / 101015A / 101515A/AR / 151515A, M4MST101010A / 101015A / 151515A	R50024025849
	MMST101010AR / 101015AR / 101515A/AR / 151515AR, M4MST101010AR / 101015AR / 151515AR	R50024055263
	MMST10102A	R50024030162
10	PANEL, SIDE LEFT	R01015028165
11	FAN GUARD	R01014027516
12	ORIFICE	R50014025412
13	FAN PROPELLER	R03019022348
14	FAN MOTOR BRACKET	R01024057493
15	FAN MOTOR	R03039022528
16	ASSY, BASE PANEL	
	MMST101010A / 101015A / 101515A / 151515A / 101020A, M4MST101010A / 101015A / 101515A / 151515A	R50014026473
	MMST101010AR / 101015AR / 101515A / 151515AR	R50014082416
	M4MST101010AR / 101015AR / 101515AR / 151515AR	R50014055358
17	FRONT PANEL	R01015028169
18	SIDE PANEL, RIGHT	R01015025851
19	ASSY, VALVE PLATE	
	MMST101010A/AR / 101015A/AR / 101515A/AR / 151515A/AR, M4MST101010A/AR / 101015A/AR / 101515A/AR / 151515A/AR	R50014029844
	MMST10102A	R50014033015

No	Description	Part No.
20	FLARE VALVE	
	MMST101010A/AR / 101015A/AR / 101515A / 151515A/AR	R50054023911
	MST101010A/AR	R50054028881
	MST101010A/AR / 101015A/AR / 101515A/AR, 101020A	R50059000221
	M4MST101010A/AR / 101015A/AR / 101515A/AR / 151515A/AR	R50059017316
	M4MST101010A/AR / 101015A/AR / 101515A/AR	R50059014483
	M4MST101010A/AR	R50054058795
	M4MST101515A / 151515A	R50059014305
	MMST101020A	R50059000220
	MMST101020A	R50059004038
	MMST101015A/AR / 101515A/AR / 151515A/AR	R50059003568
	MMST101515A/AR / 151515A/AR	R50059000070
21	M4MST101015AR / 101515AR / 151515AR	R50054058796
	M4MST151515AR	R50059014535
	Parts not in diagram	
	4 WAY VALVE	
	MMST101010AR / 101015AR / 101515AR / 151515AR, M4MST101010AR / 101015AR / 101515AR / 151515AR	R05019004157
	FLARE CAP	
	MMST101010A/AR / 101015A/AR / 101515A/AR / 151515A/AR / 101020A, M4MST101010A/AR / 101015A/AR / 101515A/AR / 151515A/AR	R12014043526
	MMST101010A/AR / 101015A/AR / 101515A/AR / 101020A, M4MST101010A/AR / 101015A/AR / 101515A/AR	R12014030741
	MMST101515A/AR / 101015A/AR / 151515A/AR, M4MST101515A/AR / 151515A/AR	R12014030742
	MMST101020A	R12014030743
	CAPACITOR	
	MMST101010A/AR / 101015A/AR / 101515A/AR / 151515A/AR / 101020A, M4MST101010A/AR / 101015A/AR / 101515A/AR / 151515A/AR	R04029026775
21	MMST101010A/AR / 101015A/AR / 101515A/AR / 151515A/AR / 101020A, M4MST101010A/AR / 101015A/AR / 101515A/AR / 151515A/AR	R04029026966
	MMST101020A	R04029026777
	CONTROL MODULE	
	MMST101010AR / 101015AR / 101515AR / 151515AR	A04089017338
	M4MST101010AR / 101015AR / 101515AR / 151515AR	R04089028458

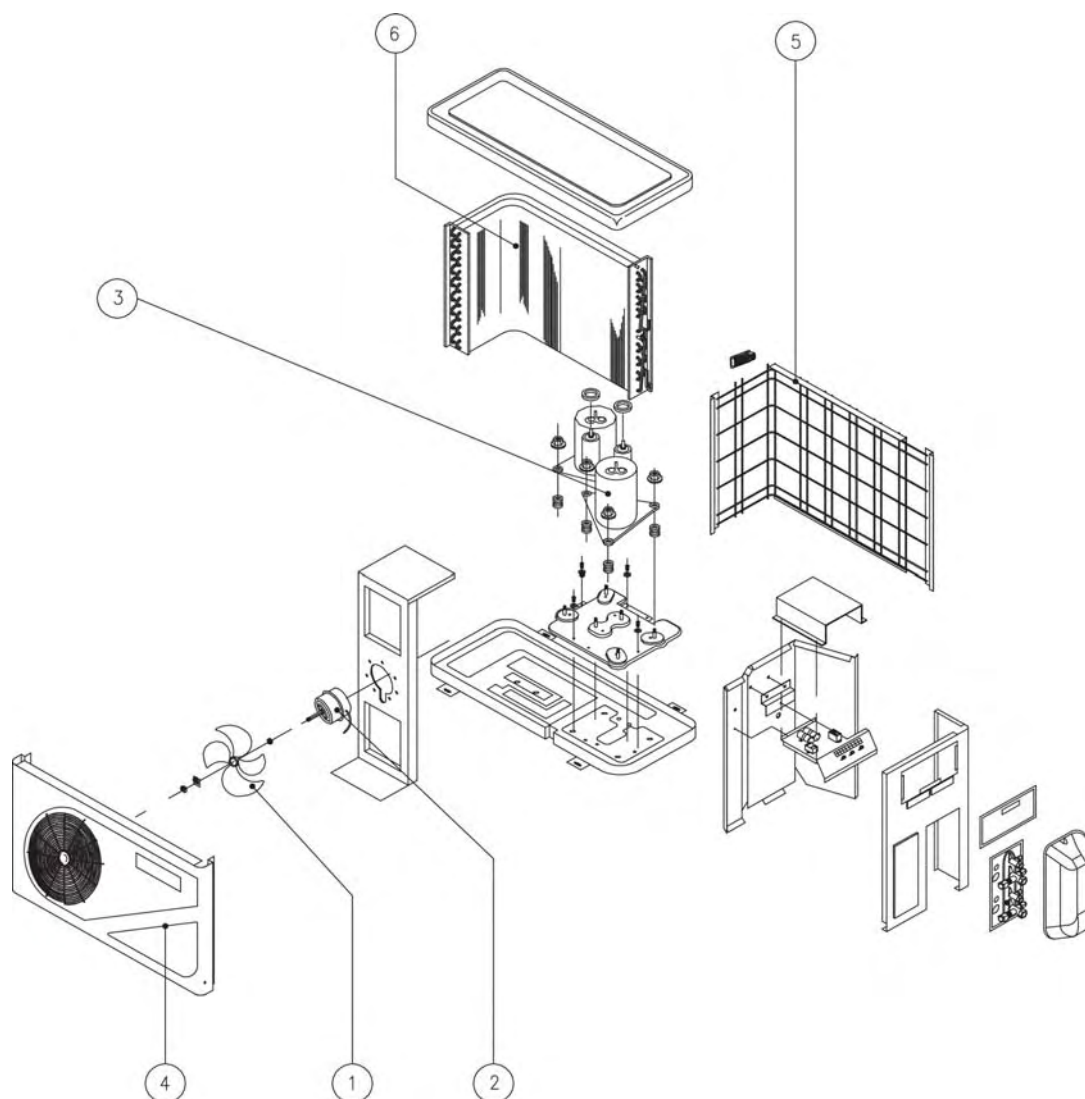
# MODEL : MMST 101025 / 101525 / 151525 / 101520 / 151520 A



No	Description	Part No.
1	ASSY. PANEL BASE	R50014068404
2	ASSY. MAIN COIL	
	MMST101025A / 101525A / 151525A	A50024067794
	MMST101520A / 151520A	R50024085293
3	BRACKET, MOTOR	R01014053232
4	FAN MOTOR	R03039004046
5	FAN PROPELLER	R03013028160
6	COMPRESSOR	
	MMST101025A / 101525A / 151525A / 101520A	R04019007793
	MMST101025A / 101525A / 151525A	R04019016491
	MMST101525A / 101520A / 151520A	R04019006193
	MMST101520A / 151520A	R04019016496
7	ASSY. VALVE PLATE	R50014089715
8	ASSY. PANEL PARTITION	R01014066209
9	PANEL BACK RIGHT	R01014066956
10	PANEL FRONT	R01014053234
11	ASSY. CONTROL BOX	R50044068651

No	Description	Part No.
12	ASSY. TERMINAL BOX COVER	R04119000045
13	ASSY. PANEL SERVICE	R01014066709
14	PANEL SIDE LEFT	R01010029899
15	PANEL TOP	R01011029900
Parts not in diagram		
16	CAPACITOR	
	MMST101025A / 101525A / 151525A / 101520A / 151520A	R04029026778
	MMST101025A / 101525A / 151525A / 101520A / 151520A	R04029026775
	MMST101025A / 101525A / 151525A / 101520A / 151520A	R04029026761
	FLARE CAP	
	MMST101025A / 101525A / 151525A / 101520A / 151520A	R12014043526
	MMST101025A / 101525A / 151525A / 101520A	R12014030741
	MMST101525A / 151525A / 101520A / 151520A	R12014030742
	MMST101025A / 101525A / 151525A / 101520A / 151520A	R12014030743

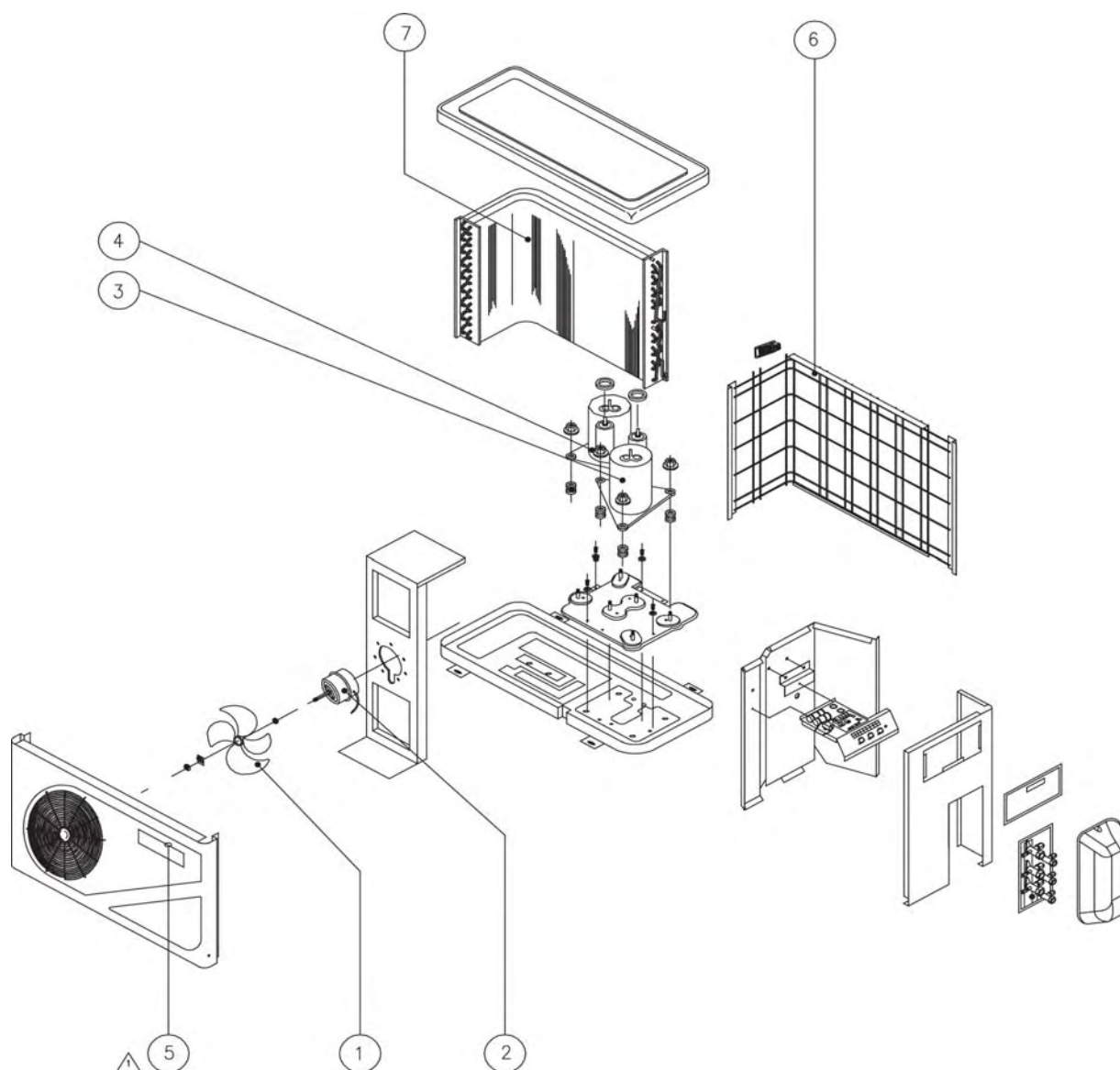
# **MODEL : MMSH 8K8 A**



No	Description	Part No.
1	FAN PROPELLER	A03019000016
2	FAN MOTOR	A03039000057
3	COMPRESSOR	A04019002772

No	Description	Part No.
4	FRONT PANEL	R01014044590
5	GRILLE BACK	R50014043394
6	CONDENSER COIL	A50024033574

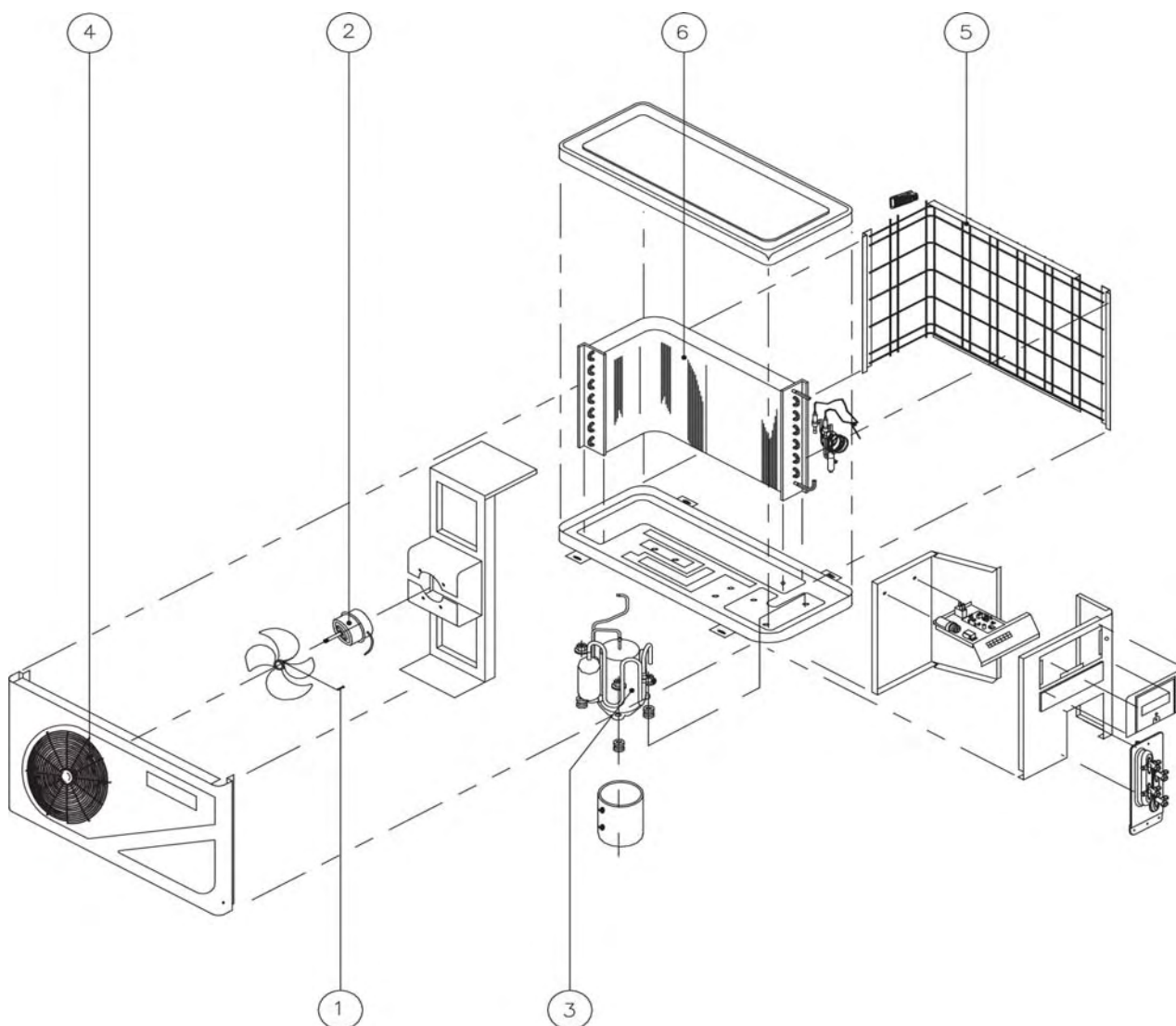
**MODEL : MMSH 8K66A / 66K66A / 66K555A**



No	Description	Part No.
1	FAN PROPELLER	R03019000016
2	FAN MOTOR	R03039000057
3	COMPRESSOR	R04019002774
4	COMPRESSOR	R04019002772
5	FRONT PANEL	R50014045824
6	GRILLE BACK	R50014043394

No	Description	Part No.
7	CONDENSER COIL	
	MSH8K66A	R50024030107
	MSH66K66A	R50024029462
	MSH66K555A	R50024039229
Parts not in diagram		
8	CONTROL MODULE	
	MSH8K66A	R04089007573
	MSH66K66A	R04089003221
	MSH66K555A	R04089007575

**MODEL : MMSH K77 A**



No	Description	Part No.
1	FAN PROPELLER	A03019004131
2	FAN MOTOR	A03039000056
3	COMPRESSOR	R04019006193

No	Description	Part No.
4	FRONT PANEL	R50014045925
5	GRILLE BACK	A50014041357
6	CONDENSER COIL	A50024040968

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